

1495/2825
FIGURE 1329

CCAGCCTCGGAGGGAGGGATTAGAAGCCGCTAGACTTTTTTTCCTCCCCTCTCAGTAGCACGGAGTCCGAATTAA
TTGGATTTTCATTCACTGGGGAGGAACAAAACTATCTGGGCAGCTTCATTGAGAGAGATTCATTGACACTAAGAG
CCAGCGCTGCAGCTGGTGCAGAGAGAACCTCCGGCTTTGACTTCTGTCTCGTCTGCCCCAAGGCCGCTAGCCTCG
GCTTGGGAAGGCGAGGCGGAATTAAACCCCGCTCCGAGAGCGCACGTTTCGCGCGCGGTGCGTCCGCCATTGCCTG
CCCCGAGGGGCGTCTGGTAGGCACCCCGCCCTCTCCCGCAGCTCGACCCCCATGATAGATACGCTCAGACCCGTG
CCCTTCGCGTTCGGAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAGCGG
CTGCTGCTGATGGAATGCCGGCCGAGGAGCTATACGAGTCGTGCGCACATCGAGTCGGCCATCAACGTGGCCATC
CCGGGCATCATGCTGCGGCGCCTGCAGAAGGGTAACCTGCCGGTGC GCGCGCTCTTCACGCGCGGCGAGGACCGG
GACCGCTTCACCCGGCGCTGTGGCACCGACACAGTGGTGCTCTACGACGAGAGCAGCAGCGACTGGAACGAGAAT
ACGGGCGGCGAGTCGTTGCTCGGGCTGCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGAA
GATGAAGCCCCGGGGCAAGAACTGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACT
GTGGCTTACCTTATGCAGAAGCTCAATCTGTGATGAACGATGCCTATGACATTGTCAAAATGAAAAAATCCAAC
ATATCCCCTAACCTCAACTTCATGGGTGAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGAC
AACAGGGTTCCAGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAA
TCTACGTGAAAGACCCACACCCCTCCTTGCTGGAATGTGTCTGGCCCTTCAGCAGTTTCTCTTGGCAGCATCAG
CTGGGCTGCTTTCTTTGTGTGTGGCCCCAGGTGTCAAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAG
TGCGGAATTGGTTAATACTAACAGAGAGATTTGCTCCATTCTCTTTGGAATAACAGGACATGCTGTATAGATACA
GGCAGTAGGTTTGCTCTGTACCCATGTGTACAGCCTACCCATGCAGGGACTGGGATTTCAGGACTTCCAGGCGCA
TAGGGTAGAACCAATGATAGGGTAGGAGCATGTGTTCTTTAGGGCCTTGTAAGGCTGTTTCCTTTTGCATCTGG
AACTGACTATATAATTGTCTTCAAGTGAAGACTAATTCAATTTTGCATATAGAGGAGCCAAAGAGAGATTTACGC
TCTGTATTTGTGGTATCAGTGTGGAAAAGAGAAATCTGATACTCCATTTGGATTATTGTAAATATTTGATCTTG
AATCACTTGACAGTGTGTTGTTGAATTGTGTTTGTCTTTTTCCTTTGATGGGCTTAAAGAAATTATCCAAAGGGA
GAAAGAGCAGTATGCCACTTCTTAAACAGAACAAAAAAGAAAATTGTGCTCTGTTGTAATCCAAAGGG
GAGATTTGCAGCATGCTTGACTTTACCAATTCTGATGACATCTTTACGGACACTATTATCACTAAGACCTTGTTA
TGGCGAAGTCTTTAGTCTTTTTTCATGTATTTTCTCATGATTTTTTCTCTTTATGTAGTTTGAGTATGCCTTACC
TTTGTAATATTTTTGCTTGTGTTGTGCGAAAGGGGATAATCTGGGAAAGACACCAATCATGGGCTCACTTTAA
AA

1496/2825
FIGURE 1330

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRA
LFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESLLGLLLKKLKDEGCRAFYLEDARGKNCVGVHCLAG
ISRSVTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQN
VYQVDSLQST

1497/2825
FIGURE 1331

GTGACAACCGGAAGCGGAAGTGAAAATGGGTGTCCCTGCTGCCTCTTAGCAACAAGAGGGGTCAAGTGACACAAC
CAGCTGACTCCCGTAGAGGAAGACACTGTGGAGGCCAGTTCTGGAGCTATTGCAGCCTCGGTTGCCCGGCCGGGG
ACCCGAGCCGAAAAGTTATCGTCAGAAATGTCGGGGCAAAGACCGAATTGAAATCTTTCCCTCGCGAATGGCACAGA
CCATCATGAAGGCTCGTTTTAAAGGGAGCACAGACAGGTCGAAACCTCCTGAAGAAAAAATCTGATGCCTTAACTC
TTCGATTTTCGACAGATCCTAAAGAAGATAATAGAGACTAAAATGTTGATGGGCGAAGTGATGAGAGAAGCTGCCT
TTTCACTAGCTGAAGCCAAGTTCACAGCAGGTGACTTCAGCACTACAGTTATCCAAAATGTCAATAAAGCGCAAG
TGAAGATTTCGAGCGAAGAAAGATAATGTAGCAGGTGTTACTTTGCCAGTATTTGAACATTACCATGAAGGAACTG
ACAGTTATGAACTGACTGGTTTAGCCAGAGGTGGGGAACAGTTGGCTAAATTAAAGAGGAATTATGCCAAAGCAG
TGGAACACTGTTGGAAGTGAAGTCTTCTGCGAGACTTCTTTTGTACTTTGGATGAAGCTATTAAGATAACCAACA
GGCGTGTAATGCCATTGAACATGTCATCATTTCCCGGATTGAACGTACTCTTGCTTATATCATCACAGAGCTGG
ATGAGAGAGAGCGAGAAGAGTTCTATAGGTTAAAGAAAATACAAGAGAAGAAAAAGATTCTAAAGGAAAAATCTG
AGAAGGACTTGGAGCAAAGGAGAGCAGCTGGAGAGGTGTTGGAGCCTGCTAATCTTCTGGCTGAAGAGAAGGACG
AGGATCTTCTATTTGAATTAATCTTTCTGTTCTGTTCTTTGAGAAACCCTAACACTGGCTTCATTTTAATTCAC
AGTGTGTAGGTTTGATTTGTGTGGCTATTTATTTTTTTGGCCTAAGAATTTCACTGGTTGTAAAAATTTACCTAGAT
GTCTATTTATGGGATTACTTTTGCAGAATCATAATTTAGCAACCATTATCATGGATGAAAGAGATCTGTAAAC
CTGCCCAGGAACCTTACAGAATTTACTTTGCAGAAGCGTTATCATACTCCATTTACATCTGTGTTACACGTGATCT
GCTTACCAAGCATATTAGGAAATACCTCTTAGGAAGCATTAGCGGTCTCAGGCCAATTACTGTGGAGCAGCTTTC
ATTCTTACCCACTTGCAAACCTTGCGCTGTTGTCTGAGATTGCTGCAGCCATTCTTGTTACCATGGTACTTCTC
AACTTTGTGAAAACCTGCACTTTTCTTGCATGACAGGTTCTGTCTTGTCTGTCATGGGAGCCATTCTGCCAA
TTTAAATGCGACTGTGGTATAAACAGTAAATGATTTAAAAGTAAGTCATTCCGTTTTTATTAATTTACTGTAA
GTCATGTTCTCATGCTCAGATCAGTAGTGTGAGCCAGAGCTTTCTCTGCAGACATGTAGGAAGTGGGTAGCTATT
TTTCCCACTCCATGTATTAGAGTTTTACAAAAAGGCTTACTTTTGAGACAACCTGTTGCATTTTGGGGTACTAATA
AATGATTGCCGATGAGTTAAAAAA

1498/2825
FIGURE 1332

MSGKDRIEIFPSRMAQTIMKARLKGAQTGRNLLKKKSDALTFRQILKKIETKMLMGEVMREAAFSLAET
AGDFSTTVIQNVNKAQVKIRAKKDNVAGVTLPVFEHYHEGTDSELTGLARGGEQLAKLKRNKAVELLVELAS
LQTSFVTLDEAIKITNRRVNAIEHVIIPIERTLAYIITELDEREREFEYRLKKIQEKKKILKEKSEKDLEQRR
AGEVLEPANLLAEKDEDLLFE

1499/2825
FIGURE 1333

GGGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAAT**AT**
GGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTTCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCTGGATACTCTTACACAGC
CGCCAATAAGAACAAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAAATCCCAAGAAGTACAT
CCCTGGAACAAAAATGATCTTTGTCGGCATTAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
AGCTACTAATGAG**TAA**TAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ACCATCCTTTAATAGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCT
GATTTAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTGAATTTTAATAGTAACTCCAATTCAG
TAAATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
GGTGAGTGCCATCTTAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATAACTGGTTATGTGAATATATT
TAAATACTGGGGAAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTTCATGTTCAATTTG
CCTCTTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAAGTATGCCAATCTAAT
TATAATTCCTGTATTTAAATGGTTTCTTTTACTTATTGAAAGGCATTTTAGTGTGGTTTATGTGTAATATTAA
AGATTATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1500/2825
FIGURE 1334

MGDVEKGKKIFIMKCSQYHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWGEDTLMEYLENPKKY
IPGTMIFVGIKKKEERADLIAYLKATNE

1501/2825
FIGURE 1335

GGCACGAGGCCTAAGAGTTCTCTGCTGTACGACTGCACTCCCGCACCCCTCCCCTAAATCCCCCTCTTCGGCCT
GTTTACCTTTTAACTTGGCTTCGTTGCACGTTTGTGTGTGTGTGTGTTGCTCTTCGCAGCCTCTTGAGCGTCTTTT
GTACTTAATTCTTACACTGTGGACGCTCTCTCGCGCCCGCCATCCCCGACCCCTCTGATCTCCGATCCTTGACG
ATGTCTAGCCTGCATTGATTGGCCCTTTTCCCTGGGTATGGCAGATCTATTGCTTGATGATCCTCTCCCCCAAG
AATTCTAACACAGGAGCTGTCCTGAGGCTCTGGATGACTTTATTCTTCAAATGGCTTTACCCCTCCAGTAGCTCC
AGGGACCCCTCCATTTTCCATATCCAGGAAAAATGTGATGCGCCACAGGTATCAGCGTCTGGATCGCCACTTCACGT
TTAGCCACAAGTGACTCAGTGGAAGATCCAGAGTCAACAGAGGCTCGTCAGGAAGATGTCTACAGAAAAGGTAG
ACCAAAAGGAGGAAGCTGGGGAAAAAGAGGTGTGCGGAGACCAGATCAAAGGACCGGACAAAGAGGAGGAACCAC
CAGCTGCTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGCAGCTAGGAACGCAAGGCCCTGAACCTGGGG
CCAGACACCCCTGCTCTCCCGGCCATGGTCAACGACCCCTCCAGTACCTGCCTTACTGTGGGCCCAGGAGGTGGGCC
AAGTCTTGGCAGGCCGTGCCCGCAGGCTGCTGCTGCAGTTTGGGGTGTCTTCTGCACCATCCTCCTTTTGCTCT
GGGTGTCTGTCTTCTCTATGGCTCCTTCTACTATTCTATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATT
TCTACTACAGGACCGACTGTGATTCCCTCCACCACCTCACTCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTA
AGGGTGGACGTGATCGGGTGTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTCCC
CTGTGAATCAAGATTTGGGCATGTTCTTGGTCACCATTTCCCTGCTACACCAGAGGTGGCCGAATCATCTCCACTT
CTTCGCGTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCTTCTCTAGCCTCC
TGCTATTTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGGAACCTCTACGCAGACTATAGAGAGAACTCGTACG
TGCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCATCCACG
CGCACTTCACTGGGCTCAGATACCTGCTATACAACCTTCCCGATGACCTGCGCCTTCATAGGTGTTGCCAGCAACT
TCACCTTCCTCAGCGTCATCGTGCTCTTCAGCTACATGCAGTGGGTGTGGGGGGGCATCTGGCCCCGACACCGCT
TCTCTTTGCAGGTTAACATCCGAAAAAGAGACAATTCCCGGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGC
CAGGTGCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGCAATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAG
ATCCCTCAGGGACAGAGGGTCAGCTGTCCGAGGAGGAGAAACCAGATCAGCAGCCCCTGAGCGGAGAAGAGGAGC
TAGAGCCTGAGGCCAGTGATGGTTTCAGGCTCCTGGGAAGATGCAGCTTTGCTGACGGAGGCCAACCTGCCTGCTC
CTGCTCCTGCTTCTGCTTCTGCCCCCTGTCTTAGAGACTCTGGGCAGCTCTGAACCTGCTGGGGGTGCTCTCCGAC
AGCGCCCCACCTGCTCTAGTTCCTGAAGAAAAAGGGGCAGACTCCTCACATTCCAGCACTTTCCCACCTGACTCCT
CTCCCCTCGTTTTTCTTCAATAAACTATTTTGTGTGCTCAGCTTCAAAAAAAAAAAAAAAAAAAAA

1502/2825
FIGURE 1336

MSTEKVDQKEEAGEKEVCGDQIKGPDKEEEFPAAASHGQGWRPGGRAARNARPEPGARHPALPAMVNDPPVPALL
WAQEVGQVLAGRARRLLLQFGVLFCTILLLLWVSFLYGSFYYSYMP TVSHLSPVHFYYRTDCDSSTTSLCSFPV
ANVSLTKGGRDRVLMYGQPYRVTLLELPESPVNQDLGMFLVTISCYTRGGRIISTSSRSVMLHYRSDLLQMLDT
LVFSSLLLFGFAEQQLLEVELYADYRENSYVPTTGAIIEIHSKRIQLYGAYLRIHAHFTGLRYLLYNFPMTCF
IGVASNFTFLSVIVLFSYMQVWGGIWPRHRFSLQVNIRKRDNSRKEVQRRISAHQPGAGPEGQEESTPQSDVTE
DGESPEDPSGTEGQLSEEEKPDQQPLSGEEELEPEASDGSGSWEDAALLTEANLPAPAPASASAPVLETLSSEP
AGGALRQRPTCSSS

1503/2825
FIGURE 1337A

AAATCCCCCAAGTTCTCATGATCCTTGCTTCCCTTTCCAGTCACCCTTGGTGCCCTGTACTTCACTGTGGTCCTG
AACTGAAGAGCTGTGTTTTTCAGGAAGACTTGGCCAGGCCGTGTTCCGTGTCTCTGGATTCAAGTCCCAGGAGTC
CTGACCAGAGAGCAGGCATCAGTGTTTTCTGACCGAAGTGCTCATTTCCTGACA**ATCG**AAATGGAACAAGAAAA
AATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCTCGGCCTGCCACGGCGATGAGACCTG
GAGTTACAACCACCCCATCCGGGGCCGGGCCAAGTCTCGCAGCCTGTCTGCCTCGCCCCGCCCTGGGGAGCACCAA
GGAGTTCAGGAGGACACGCTCTCTTCATGGGCCATGCCCGGTGACCACTTTTGGACCAAAGGCCTGTGTGCTGCA
GAACCCCCAGACCATCATAGCCACTCCTTTGTCACTCGCATCTCAGCTGCTGCCTTCACCAGCCGTCACTCACTC
GGGCCAGGGCGGGGTACCGGACAGGTGCATGTTCTGCCTCAGCCCTCAGACCAGGGCGTACTCAGTGGTCCCCG
AGCTGCCCCGAGGCCAGACAGCCCCGAGGAGGAAGCGGTGACCCAGGAAGAGGTCGAGGCGCTGGTTTGTGGTCA
CACACAGCGGTGGGTGCCTGGGCCGGTGTACGACGCCGTGCTGGTGGCTCTGGCTGGGCTCAGCTGAGCCTCAG
GGCTGGAATGGGTGTAGGCCAGGCCACTGGGCACATTCAGGACCCCGCGAGCCAGCGGCTGACGTGGAACAAGTC
CCCAAAGAGCGTCTTGTTCATCAAGAAGATGAGAGATGCCAGCCTACTGCAGCCGTTCAAGGAGCTCTGCACGCA
CCTCATGGAGGCACGCGGGGACAGGGGGGAAGGGGGCCTGGGGTGCACATGGAGTTGGGGGGGCCCTCCATCCACAT
CACCGCCCCGAGGGTGGGGTCTGCAGGTGGAATGAGCAGGTTGGCACTTTGCTTCCAGGAGAACATGATCGTGTA
TGTGGAAGAAAGTGTCTAGAAGACCCTGCCATCGCCAGCGATGAAAGCTTTGGGGCAGTGAAGAAGAAATTCTG
TACCTTTTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGGGGGAGACGGGACGCT
GCTGTACGCTTCTCGCTTTTCCAGGGCAGCGTCCCTCCGGTCATGGCCTTCCACCTGGGCTCCCTGGGCTTCCT
GACCCCATTCAGCTTTGAGAACTTTCAGTCCCAAGTTACTCAGGTGATAGAGGGGAACGCAGCTGTTGTTCTCCG
GAGTCGGCTGAAGGTGAGGTGGTGAAGGAGCTCCGGGGGAAGAAGACGGCCGTGCACAATGGGCTGGGTGAGAA
CGGCTCGCAGGCTGCAGGCCTGGACATGGATGTGCGGAAGCAGGCCATGCAGTACCAGGTCTGAATGAGGTGGT
GATTGACAGAGGCCCTCCTCCTACCTGTCCAATGTGGATGTCTACCTGGACGGACACCTCATCACCACGGTGCA
GGGCGACGGAGTGATCGTGTCCACCCCGACGGGCAGCACGGCGTATGCGGCCGCGGCCGGGGCCTCCATGATCCA
CCCCAACGTGCCGGCCATCATGATCACGCCCATCTGCCCCACTCGCTGTCTTCCGGCCCATCGTGGTCCCCGC
AGTCGAGCTGAAGATCATGCTGTACCTGAAGCAAGGAACACAGCATGGGTGTCTTTGATGGACGGAAGAGACA
AGAGATCCGCCATGGAGACAGCATCAGCATCACTACCTCATGCTACCCGCTCCCCTCCATCTGTGTGCGGGACCC
CGTGAGCGACTGGTTTGAGAGCCTCGCCCAGTGCTTGAACGTCCGGAAGAAGCAAGCCCACTTCGAGGA
GGAGGAGGAGGAGGAGGAGGAGGGCT**TAG**GTCAAGCCCCATCCAGGCCCGAATCCTTCCGCTGCCCTCCAAGCGC
CCTCTGGGGACAGACCAATCTGCGTGTGTCTGTGACCGCCTGTATCAGTGGCACGGCCACTTCCTTTCTGTAGC
TGGGTTAGAGCCTGGGTCTGCCTTTTGTCCAGATCAGCTGTTTTTTTTAAATCTCTGACTTTTTTTGCATTTCTA
AAGAAGCGTGAGAAATGGGCTGGGAGTGCTTCTGTCTCTGACACCCCGCGGTGGGTCCCTGGAGCGCGCCCTC
CAGCTGCCGCAATTTCCATGCCAGGATATTTTTCCGCAAAATCAGTCGGTTGAAATTCAGAGGAGTCAGAATGACT
CGACCTGTCTTCAATGTTGATAATAAATGTCTCAGCCAAAAACCTTCCTTGAGCTGCCATGCTTTTCCCCTTGA
CCTGCACCTCTTCCCCTAAATTTCTGCAGGGAAGCCCCCTGGCGGAGGCGCCATTGAAAGCATGGTCTTGCCAGT
GGCTGGCAAGGCGGTTTTGTTCTGCTCAGTTTCTGGAGAGGTTGGATGCGTCCCCTGCCATCCAGCCCTCCCCG
CTTGAGGCCAGCACTGAGTCTGGGACACTCAGCGGGAAGGGGGCTGGCATCGCCACGGACCCACACATTCCTCAC
GTAGCTTCTGCTCCCAGGAAGGTAGTTTAAATCCTGTATATACTTTTTAGAGACTCTTTTAACTTTCTGAAGTG
CTGATGTACATACTTTCTCGTACACACTTTTGTGAAGATTTCAAGGGGAAGGGAGTTGTCTGCCATTCAATGTTT
ACATTTATGTTCTGCAAGACGCTGTCTCAGGGACCATTAGGGGACCATTCGTTCAGTGCGATCCTGATGGTCC
GGGAGATGAGGGTTTCCGGGGCTAGTGATCGTGATCCCTTTTATTTGCAACTGTAATGAGAATTTTTACACTAA
CACAGCGAGGGACTCAACACGCTGATTCTCCTCCTGCCTCTCCCGTGAGTCTCCAGCCTGCCAGCACCAGCAGC
TGTGGAGCACGTGGATGCTGCCTACCCCGCGCCCGCGCTCTCCACGGGCACAGGTGTGTGGAGGCCGTGGTCCG
ACCCTGGTGTCTGTTACTGCTGCCCGGGTGTCTTTTTTTTGGAGTAACTGCTCTCTGAGTTTTTGCACACGAAGT
TGCCCTCATCTGCTGGAGATCGATAAGGAAGGCACAAGACGTTCTCCTCTGCCCGTGAGGAGCTTCCCGCAGCCG
CCTGGCCCAGCCTGGGCACGTTCTCCGAGGCATGTGTCTCCCTGCTCACCCTCGTCTGGGCACCTCAGCATCTGT
GGACTTGAGCGTCCAAAAACCCCTGAGTGTGATTCTGGGCAGCCGGCCTGGCTTGAAGTCCGCCATGACCCTGGGC
ACAGGGGAAGCCAGCCGTGGGCTTAGGAGAGAGGGACCAGCGCCAGCGTTAGGGCTGGAAGACGGCAGTGTTT
AGAATTCCAGCCGCTCATCTGAACACAGAAGGTGTGAAGTACCTCTAAAGCAGCGTGAGATGGGAATGATCTAG
AAAACCTTTGGATTTTTGAAGTAAATTTAATGTTTCATATTAATTTCTTGAAAATGTATTAAATGTATTGAAAG

1504/2825
FIGURE 1337B

CCTTATTACGCTTTTCAGATCCTTTCAATAAACAAGACTTGTAGAAAATAAAAAAAAAAAAAAAAAAAAAA
A

1505/2825
FIGURE 1338

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSASPALGSTKEFRRTSLHGPCPVTTFG
PKACVLQNPQTIIATPLSLASQLLPSPAVSHSGQGQGVGTGQVHVLPQPSDQGVLSGPRAARGQTAPQEEAVTQEEV
EALVCGHTQRWVPGPVYDAAAGGSGWAQLSLRAGMGVGGATGHIQDPASQRLTNKSPKSVLVIKMRDASLLQP
FKELCTHLMARGAGGKGAWGAHGVGGASIHITAPRVGSAGGMSRLALCFQENMIVYVEKKVLEDPAIASDESFG
AVKKKFCTFREDYDDISNQIDFIICLGGDGTLTYASSLFQGSVPPVMAFHLGSLGFLTPFSFENFQSQVTQVIEG
NAAVVLRSRLKVRVVKELRGKKTAVHNGLGENGSAAGLDMDVGKQAMQYQVLNEVVIDRGPSYLSNVDVYLDG
HLITTVQGDGVIVSTPTGSTAYAAAAGASMIHPNVPAIMITPICPHSLSFRPIVVPVELKIMLSPEARNTAWVS
FDGRKRQEIRHGDSISITTSCYPLPSICVRDPVSDWFESLAQCLHWNVRKKQAHFEFFFFFFFFEG

1506/2825
FIGURE 1339

GGCACGAGGGAGCGCTTGGGAGTTAGGTTGTTTGCCGGCGTAGCGGCCAGCGCCTGAGCCCGCCGTTGATCTTCG
CTGTGGC**ATG**GCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTTAATTTCCCTCAAAGAAAGAA
GAAAGGCCGGGGTCCCTTCCGGTGGAATATGGTGAAGGAAACCGTAGGTCTGGAAGAGGCGGTTCTGGTATTTCG
GTCTTCCCGCCTTGAGGAAGATGATGGAGATGTGGCAATGAGTGAATGCCAGGATGGTCCCCGAGTACGATACAA
CCCCATACCACCCGACCTAACCGTCGGGGTGATACTTGGCATGATCGAGATCGCATTCATGTTACTGTGCGGAG
AGACAGAGCTCCTCCAGAGAGAGGAGGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAACTGGTTCAAGATTAC
AATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGATTCAGAGCAAGTGCAGTGTGCCCTTCAC
CCCTATTGAGTTTCACATGAGAATACACGGGCCAGTTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAA
GGCTGTCAACTATAAGATTTTGGATCGGGAGAACCGAAGGATATCTATCATCATCAACTCTTCTGCTCCACCCCA
CACTATACTGAATGAAGTGAAGCCAGAACAAGTAGAACAGCTAAAGCTGATCATGAGCAAACGATACGATGGCTC
CCAACAAGCCCTTGACCTCAAAGGCCTCCGTTGAGACCCAGATTTGGTGGCCAGAACATTGACGTTGTCTGAA
TCGACAGAGCTGTATGGCAGCTACCCTGAGGATCATTGAAGAGAACATCCCTGAGCTATTGTCTTGAAGTTGAG
CAACAACAGGCTGTACAGGCTGGATGACATGTCTAGCATTGTTTGAAGGCACCCAACCTGAAGATCCTAAACCT
TTCTGGAATGAATTGAAGTCTGAGCGGGAATTGGACAAGATAAAGGGGCTGAAGCTAGAAGAGCTCTGGCTCGA
TGGAAGTCCCTGTGTGACACCTTCCGAGACCAGTCCACCTACATCAGCGCCATTTCGCGAACGATTTCCTCAAGTT
ACTACGCTGGATGGCCATGAGCTACCCCCACCAATTGCCTTTGATGTTGAAGCCCCACGACGTTACCGCCCTG
CAAGGGAAGCTATTTTGAACAGAAAACCTGAAGAGTCTGGTCTTGCACTTCTGCAACAGTACTATGCAATTTA
CGACTCTGGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGGCCTGCTGTTCCCTGAGCATTCCTTTTCAT
TCCTCAGAACCCTGCCCGAAGCAGCTTAGCCGAGTATTTCAAGGATAGCAGAAATGTGAAGAAGCTTAAAGACCC
TACCTTGCGGTTCCGGCTGCTGAAGCACACGCGTCTCAACGTTGTTGCCTTCCTCAATGAGTTGCCCAAAACCCA
GCACGACGTCAATTTCCTTCGTGGTAGACATAAGCGCCCAGACAAGCACATTGCTGTGTTTTTCTGTCAATGGAGT
CTTCAAGGAAGTGGACGGAAGTCCCGGGATTCTTTGCGAGCCTTCACCCGGACATTTCATTGCTGTTCTGCTAG
CAATTCAAGGGCTATGTATTGTAAATGATGAGCTATTTGTGCGGAATGCCAGTTCTGAAGAGATCCAAAGAGCCTT
CGCTATGCCTGCACCCACGCCTTCCTCCAGCCCCGGTGCCACCCCTCTCTCCAGAGCAGCAGGAAATGTTGCAAGC
ATTCTCTACCCAGTCTGGCATGAACCTCGAGTGGTCCCAGAAGTGCCTTCAGGACAACAACCTGGGACTACACCAG
ATCTGCCCAGGCCTTCACTCATCTCAAGGCCAAGGGCGAGATCCCAGAAGTGGCATTTCATGAAG**TGAT**CGTAGTC
ATGCCTCAGAAGCAGTCCCCCTGTAAATAGTCCTTGATATTACCGTCTGGTTGTCGTCGTCTCATCTCCTCCTG
TCTGGCCCGAGGCCGCCCGTGACTGTGACCGAGGGAGGGAGGGCTGCCTGATCCCTCTCCTCGCCTGCCTTCTG
GAAGACTTCAGAAGATTGAGCCTCACTGGTGCCAGGAAGCCAAAGCTTACTTTGTAGAAGTACACTAACTACC
CGAAGACTTAGGTGCTTTGTGTACTTAACCCAGGACCTCCTTACTTTTTAATATAAAGAGTGATGTTGTAAAA
AAAAAAAAAAAAA

1507/2825
FIGURE 1340

MADEGKSYSEHDDERVNFPQRKKKGRGPFWRWYGEENRRSGRGGSGIRSSRLEEDDGDVAMSDAQDGPRVRYNPY
TTRPNRRGDTWHDRDRIHVTVRRDRAPPERGGAGTSQDGTSKNWFKITIPYGRKYDKAWLLSMIQSKCSVPFTPI
EFHYENTRAQFFVEDASTASALKAVNYKILDRENRRISIIINSSAPPHTILNELKPEQVEQLKLIMSKRYDGSQQ
ALDLKGLRSDPDLVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNNRLYRLDDMSSIVQKAPNLKILNLSG
NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYISAIRERFPKLLRLDGHELPPPIAFDVEAPTTLPPCKG
SYFGTENLKSLVLHFLQQYYAIYDSGDRQGLLDAYHDGACCSLSIPFIPQNPARS SLAEYFKDSRNVKKLKDPTL
RFRLKHXTRLNVVAFLNELPKTQHDVNSFVVDISAQTSTLLCFVNGVFKEVDGKSRDSLRAFTRTFIAVPASNS
GLCIVNDEL FVRNASSEEIQRAFAMPAPT PSSSPVPTLSPEQQEMLQAFSTQSGMNLEWSQKCLQDNNWDYTRSA
QAFTHLKAKGEIPEVAFMK

1508/2825
FIGURE 1341

CGGGAAGCGCGGCGGGGCTCCAGACCGGGGCGGGCTTAAGGGTGACATCTGCGCTTTAAAGGGTCCGGGTCAGC
TGAATCCCGACTCTGTGGAGTCTAGCTGCCAGGGTCGCGGCAGTGCGGGGAGAG**ATG**ACTGGGGAGCGACCCAGC
ACGGCGCTCCCGGACAGACGCTGGGGGCCGCGGATTCTGGGCTTCTGGGGAGGCTGTAGGGTTTGGGTGTTTGCC
GCGATCTTCTGCTGCTGTCTCTGGCAGCCTCCTGGTCCAAGGCTGAGAACGACTTCGGTCTGGTGCAGCCGCTG
GTGACCATGGAGCAACTGCTGTGGGTGAGCGGGAGACAGATCGGCTCAGTGGACACCTTCCGCATCCCGCTCATC
ACAGCCACTCCGCGGGGCACTCTTCTCGCCTTTGCTGAGGCGAGGAAAATGTCTCATCCGATGAGGGGGCCAAG
TTCATCGCCCTGCGGAGGTCCATGGACCAGGGCAGCACATGGTCTCCTACAGCGTTTATTGTCAATGATGGGGAT
GTCCCCGATGGGCTGAACCTTGGGGCAGTAGTGAGCGATGTTGAGACAGGAGTAGTATTTCTTTTCTACTCCCTT
TGTGCTCACAAGGCCGGCTGCCAGGTGGCCTCTACCATGTTGGTATGGAGCAAGGATGATGGTGTTCCTGGAGC
ACACCCCGGAATCTCTCCCTGGATATTGGCACTGAAGTGTTTGCCCTGGACCGGGCTCTGGTATTGAGAAACAG
CGGGAGCCACGGAAGGGCCGCCTCATCGTGTGTGGCCATGGGACGCTGGAGCGGGACGGAGTCTTCTGTCTCCTC
AGCGATGATCATGGTGCCTCCTGGCGCTACGGAAGTGGGGTCAGCGGCATCCCTACGGTCAGCCCAAGCAGGAA
AATGATTTCAATCCTGATGAATGCCAGCCCTATGAGCTCCAGATGGCTCAGTCGTCAATGCCCGAAACCAG
AACAACCTACCACTGCCACTGCCGAATTGTCTCCGCAGCTATGATGCCTGTGATACACTAAGGCCCCGTGATGTG
ACCTTCGACCCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCTGTAGTCACCAGCTCCGGCATTGTCTTCTTC
TCCAACCCAGCACATCCAGAGTTCCGAGTGAACCTGACCCTGCGATGGAGCTTCAGCAATGGTACCTCATGGCGG
AAAGAGACAGTCCAGCTATGGCCAGGCCCCAGTGGCTATTCATCCCTGGCAACCCTGGAGGGCAGCATGGATGGA
GAGGAGCAGGCCCCCAGCTCTACGTCTGTATGAGAAAGGCCGGAACCACTACACAGAGAGCATCTCCGTGGCC
AAAATCAGTGTCTATGGGACACT**CTGA**GCTGTGCCACTGCCACAGGGGTATTCTGCCTTCAGGACTCTGCCTTCA
GGAACACGGGTCTGTAGAGGGTCTGCTGGAGACGCCTGAAAGACAGTTCCATCTTCTTTAGACTCCAGCCTTGG
CAAAATCACCTTCCCTTTACCAGGGAAATCACTTCTTTAGGACTGAAAGCTAGGCGTCTCTCCACAAAAAAG
TCCTGCCCTCATCTGAGAATACTGTCTTTCCATATGGCTAAGTGTGGCCCCACCACCCTCTCTGCCTCCCGGGAC
ATTGATTGGTCTGTCTTGGGCAGGTCTAGTGAGCTGTAGAATTGAATCAATGTGAACTCAGGGAAGTGGGGAAG
GCTGAGCCTCCTCTTTGGTGTTCGGTAAGATAACCGACAGGGCTGGTGAAAGTCCCCAGATGGCAGGATATTTG
GTTTCAGAGTAAGGACTAGGTGCACCACCATGACTGACTATCAATCAAAATGTTTGTAACCTTAAATTTTAAATG
AAGGATAATGAATATTTTA

1509/2825
FIGURE 1342

MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQPLVTMEQLLWVSGRQIGSVD
TFRIPLITATPRGTLLAFAEARKMSSSDEGAKFIALRRSMDQGSTWSPTAFIVNDGDVPDGLNLGAVVSDVETGV
VFLFYSLCAHKAGCQVASTMLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRLIVCGHGTLE
DGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSVVINARNQNNYHCHCRIVLRSYDADC
TLRPRDVTTFDELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLAT
LEGSMGDGEEQAPQLYVLYEKGRNHYTESISVAKISVYGTL

1510/2825
FIGURE 1343

GAACACCAGCGAGCTGGTCTCCAGCGAGGTCTACCTGCTCAGTGCCTTGGCTGCTCTGCAGAAAGGTTGTGGAGAC
TCTCCCGCACTTCATCAGCCCCCTATCTGGAAGGCATTCTCTCCAGGTGATTCATCTGGAGAAAAATCACTAGTGA
AATGGGTTCTGCGTCACAGGCTAATATCCGTCTCACATCTCTTAAAAAGACACTGGCTACCACACTTGCACCCCG
AGTCCTGTTGCCCGCCATCAAAAAAATTACAAGCAGATTGAGAAGAACTGGAAGAATCACATGGGTCCGTTTAT
GAGCATCTTGCAAGAGCATATTGGGGCGATGAAGAAGGAAGAGCTCACCTCCCATCAGTCTCAGCTAACCGCCTT
TTTCTGGAGGCCCTGGACTTCCGAGCCCAGCACTCTGAGAACGATCTGGAGGAAGTTGGAAAAACGGAAAATTG
TATCATTGACTGTCTAGTAGCCATGGTTGTCAAACCTTCCGAGGTACATTACAGGCCCTGTTCTTCAAGCTGTT
TGATTGGGCTAAAACAGAAGATGCCCCAAAGGACAGGTTGTTGACATTTTACAACCTTGGCAGATTGCATTGCTGA
AAAGCTGAAAGGGCTTTTTACTCTGTTTGCCGGCCACTTAGTGAAGCCTTTTGCTGACACCTTGGACCAGGTGAA
CATCTCCAAAACAGATGAAGCATTTTTTGA CTCTGAAAATGACCCTGAAAAGTGCTGCTTGCTGTTGCAGTTTAT
TTTGAAGTGTATATACAAAATCTTCCTTTTTTGATACCCAGCATTTTATAAGTAAAGAGAGAGCAGGAGCCTTGAT
GATGCCTCTGGTGGATCAGCTGGAAAACAGGCTTGGGGGAGAAGAGAAATTCCAGGAACGGGTGACAAAGCACCT
GATACCATGCATCGCACAGTTTTTCAGTGGCCATGGCGGATGACTCTCTTTGGAAACCACTGAACTACCAGATTCT
GCTAAAGACGAGAGACTCCTCGCCTAAGGTTGATTTGCTGCTTTGATTACTGTGTTAGCACTGGCTGAAAACT
AAAGGAGAATTATATTGTCTTGCTACCAGAATCCATTCTTTCTTAGCAGAGTTGATGGAAGATGAATGTGAAGA
AGTAGAACATCAGTGCCAAAAGACTATTACAGCAACTGGAACTGTCCTGGGAGAGCCACTCCAGAGCTATTTCTA
AGACTTTCTGTGGTGTTCATACTCTACTCAGAGTTCACACTCATATTTTCATATTTTTATTTTGGGTGTTGGGT
GCCATGTTACTTTTGGTGCCTTAATACACCTACTTGGATTACTTACAAATGTTTTATCACTTCGTTACAAAATCC
CCACCTGGCTTGCTGCTGCCACATAAGCCTCTCCTGCCTATCGTATAGAGCTGCAGAAAGAGTAAATGATACACGG
TATTTTTAAAAA

1511/2825
FIGURE 1344

MGSASQANIRLTSLKKTLLATTLAPRVLLPAIKKTYKQIEKNWKNHMGPFMSILQEHIGAMKKEELTSHQSQLTAF
FLEALDFRAQHSENDLEEVGKTENCIIIDCLVAMVVKLSEVTFRPLFFKLFDWAKTEDAPKDRLLTFYNLADCIAE
KLKGLFTLFAGHLVKPFADTLDQVNISKTDFAFFDSENDPEKCCLLLQFILNCLYKIFLFDTHFISKERAGALM
MPLVDQLENRLGGEEKFQERVTKHLIPCIAQFSVAMADDSLWKPLNYQILLKTRDSSPKVRFAALITVLALAEKL
KENYIVLLPESIPFLAELMEDECEEVEHQCKTIQQLETVLGEPLQSYF

1512/2825
FIGURE 1345

CCGAGCCTGGAGTTTGCATGAAACTTTACCTGCGCTCCGGGGAGACTTTTCGGCTCCGGCTCCCACCGCGCGCCT
CGCCGCCCTCGCAACCGCGGGCTCCGTCCAACCCGGCCCGAC**ATCG**ACGTGCTCCCCATGTGCAGCATCTTCCAG
GAGCTCCAGATCGTGCACGAGACCGGCTACTTCTCGGCGCTGCCGTCTCTGGAGGAGTACTGGCAACAGACCTGC
CTAGAGCTGGAACGTTACCTCCAGAGCGAGCCCTGCTATGTTTCAGCCTCAGAAATCAAATTTGACAGCCAGGAA
GATCTGTGGACCAAAATCATTCTGGCTCGGGAGAAAAAGGAGGAATCCGAACCTGAAGATATCTTCCAGTCCTCCA
GAGGACACTCTCATCAGCCCGAGCTTTTGTACAACTTAGAGACCAACAGCCTGAACCTCAGATGTCAGCAGCGAA
TCCTCTGACAGCTCCGAGGAACCTTTCTCCACGGCCAAGTTTACCTCCGACCCCATTTGGCGAAGTTTGGTCAGC
TCGGGAAAAATTGAGCTCCTCTGTACCTCCACGCCCTCCATCTTCTCCGGAACCTGAGCAGGGAACCTTCTCAACTG
TGGGGTTGCGTGCCCGGGGAGCTGCCCTCGCCAGGGAAGGTGCGCAGCGGGACTTCGGGGAAGCCAGGTGACAAG
GGAAATGGCGATGCCTCCCCGACGGCAGGAGGAGGGTGCACCGGTGCCACTTTAACGGCTGCAGGAAAGTTTAC
ACCAAAAGCTCCCACTTGAAAGCACACCAGCGGACGCACACAGGAGAAAAGCCTTACAGATGCTCATGGGAAGGG
TGTGAGTGGCGTTTTTGCAAGAAGTGATGAGTTAACCAGGCACTTCCGAAAGCACACCGGGGCCAAGCCTTTTAAA
TGCTCCCACTGTGACAGGTGTTTTTCCAGGTCTGACCACCTGGGCCTGCACATGAAGAGGCACCTCT**AG**AGGGAGC
AAAGAGGTGGATCCTGTAGGCTAAAAGGCTTCCAGGCTGAGAGCCGGCCGTGGAAGGAGGGATGCGTGTTCCAGC
CAAAGCATGCCGTTCTGCACCTACCCAGTTGCCTCCAGGGCCTCTCCTTGGAAGGTCTTTTGAAGGCTAAAAAGG
TCCTGTAAGAAGTGGCATAGCACCCGTGGTGATGGTATGTGGGTGACCCTGGACTCGCCACTGGTACCCGCCCT
TCCGAGCGGCGCCTAAGCCTTTGCCGTGAGCATGCACACTGAGAATGCTAATGGTTGGGTTGATTGTATGTTGAG
GATCTATTACTGACCGTATGATGAGGCCAACTTTTTTTCCTTGTTGGTTAGCAAGACTGCAAGAGATGGAAAAAA
GTAGTTTGAATGTTTTGTGTGAAAGGAGTATACCATGAGATGAGATGACCACCAATCATTTTCCTTGGGGGGAGGG
GGTGCTGTCACCTTAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1513/2825
FIGURE 1346

MDVLP MCSIFQELQIVHETGYFSALPSLEEWQOTCLELERYLQSEPCYVSASEIKFDSQEDLWTKIILAREKKE
ESELKISSPPEDTLISPSFCYNLETNSLNSDVSSSESSDSSEELSPTAKFTSDPIGEVLVSSGKLSSSVTSTPPS
SPELSREPSQLWGCVPGELPSPGKVRSGTSGKPGDKNGDASPDGRRRVHRCHFNGCRKVYTKSSHLKAHQRTHT
GEKPYRCSWEGCEWRFARSDELTRHFRKHTGAKPFCSHCDRCFSRSDHLGLHMKRHL

1514/2825
FIGURE 1347A

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGGCGTCCGCCAGGC
CAGCT**ATG**GCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG
AGGTGGCCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCAGGATGCCACGGATCCCTTTGTGGCCT
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACCTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA
GCTTTGAGCCCACCAAGAATAAAGAGCTGACAGATGAGTTCGGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA
CCCTTTGGGTCTTTGGGACGTCCCTTTTTGCCCTTCTCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCAGG
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGCGTCTTCAGCACCTCAAAGTGAACCATCTGCTACATCATT
TTGTGATTGGCCACCTGAAGGGGGCCCCCGCCAGTTGGTGAACCACATGCACCTCCAGCACCATGCCAAGCCCA
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCCTTGGGGAAGATCCTCTCTGTGGAGC
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTTAATTGGGCCCCCAGCCT
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTTGGGCCCTTTTCT
TCATAGTCAGGTTCTTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTTCCACGATGCCTCGACACAATTACCACAAAG
TGGCTCCCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTCAGCCTTCG
CCGACATCATCCACTCACTAAAGGAGTCAAGGCAGCTCTGGCTAGATGCCTATCTTACCAA**TA**CAACAGCCAC
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT
AGTTTAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC
CACAGTTCTAAGACCCAAAGTGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT
AAATTATTTCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTAACTATAAAATTCCACTCATGCCGGGCGTGGTGGCACGC
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTGCAAACTCAGAGGGA
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA
TGCCATTCTCCAGTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAAGCTCTTTCATCTTTTAATTACCTCTTCTTTTACCTCTTTAA
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT
AATAAAATAGCAATTAGCAGAAGTGACCAAAATGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCCGT
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTTGAGCAGGA
GCAGAAAGATTAAATATGATCACTTCATACTTCTAAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAAATA
GGCTTTAGAAGAGATTATCCTATATTCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT
CAGCAGCATCTACTCTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAAGAC
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG
GTCAGATGCACCACCCATGGAGAGGTTTGTCAACACAAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG
CTGCAGAAGATTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAAGTAGGTTTAAACAGCCTGGGT
AGGAAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG
GATCACTTGGGCCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

1515/2825
FIGURE 1347B

ACAAGACCCTGTCTCAAAAAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCT
CACTCCAAAATAGGTGCTGATCCTTCCTATTCCCTATTCTTTGCCACCTTTTGGGTGTGGTGTACCCAGCCTGTTT
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTGGTCTCTTACATGGCCACAAAGGGACACA
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAAATAGGCT
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCCAAC
TTCTATGTTTATCTTTGTTACTTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA
GTATTCTTTTTGTGTGTGCCAATTTTGTATCACATCCCTATGAAGTTGAAAAATAAGTTAATTTTGACCAAAA
AAAAAAAAAAAAAG

1516/2825
FIGURE 1348

MAPDPVAAETAAQGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHYAGQDATDPFVAFH
INKGLVKKYMNSLLIGELSPEQPSFEPTKNKELTDEFREL RATVERMGLMKANHVFLLYLLHILLLDGAAWLTL
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHDFGHLSVFSTSKWNHLLHHFVIGHLK GAPASWWNHMHFQHHAKPNC
FRKDPDINMHPPFFALGKILSVELGKQKKKYPYNHQHKYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWFVWVTQMNHIPMHIDHNRNMDWVSTQLQATCNVHKSAFNDWF
SGHLNFQIEHHLFPTMPRHNYHKVAPLVQSLCAKHGIEYQSKPLLSAFADIIHSLKESGQLWLDAYLHQ

1517/2825
FIGURE 1349

GGCACGAGGCTGCTGTTTGTCTACTTCCTCCTGCTTCCCCGCCGCCGCCGCCGCCATC**ATG**AGGGAAATCGTGCA
CTTGCAAGGCCGGGCAGTGCGGCAACCAAATCGGCGCCAAGTTTGGGAGGTGATCAGCGATGAGCACGGCATCGA
CCCCACGGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAACGCATCAACGTGTACTACAATGAGGCCACCGG
CGGCAAGTACGTGCCCCGCGCCGTGCTCGTGGAATCTGGAGCCCCGGCACCATGGACTCCGTGCGCTCGGGGGCCCTT
CGGGCAGATCTTCCGGCCGGACAACCTTCGTTTTTCGGTCAGAGTGGTGCTGGGAACAACCTGGGCCAAGGGGGCACTA
CACAGAAGGCGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTGAGAAAGGAGGCTGAGAGCTGTGACTGCCTGCA
GGGTTTCCAGCTGACCCACTCCCTGGGTGGGGGGACTGGGTCTGGGATGGGTACCCTCCTCATCAGCAAGATCCG
GGAGGAGTACCCAGACAGGATCATGAACACGTTTAGTGTTGGTGCCTTCGCCCAAAGTGTGAGACACAGTGGTGA
GCCCTACAACGCCACCCTCTCAGTCCACCAGCTCGTAGAAAACACAGACGAGACCTACTGCATTGATAACGAAGC
TCTCTACGACATTTGCTTCAGAACCCTAAAGCTGACCACGCCCACCTATGGTGACCTGAACCACCTGGTGTCTGC
TACCATGAGTGGGGTCACCACCTGCCTGCGCTTCCCAGGCCAGCTCAATGCTGACCTGCGGAAGCTGGCTGTGAA
CATGGTCCCGTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCCACTGACCAGCCGGGGCAGCCAGCAGTA
CCGGGCGCTGACCGTGCCCGAGCTCACCCAGCAGATGTTTGATGCCAAGAACATGATGGCTGCCTGCGACCCCCG
CCATGGCCGCTACCTGACGTTGCCGCCGTGTTCAGGGGCCCGCATGTCCATGAAGGAGGTGGATGAGCAAATGCT
TAATGTCCAAAACAAAACAGCAGCTATTTTGTGAGTGGATCCCCAACAATGTGAAAACGGCTGTCTGTGACAT
CCCACCTCGGGGGCTAAAAATGTCCGCCACCTTCATTGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCAT
CTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGAT
GGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCCGAGTACCAGCAGTACCAGGATGCCACAGCCGA
GGAGGAGGGCGAGTTCGAGGAGGAGGCTGAGGAGGAGGTGGCC**TAG**AGCCTTCAGTCACTGGGGAAAGCAGGGAA
GCAGTGTGAACTCTTTATTCACTCCAGCCTGTCTGTGGCCTGTCCCACTGTGTGCACTTGCTGTTTTCCCTGT
CCACATCCATGCTGTACAGACACCACCATTAAAGCATTTTCATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

1518/2825
FIGURE 1350

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGKYVPRAVLVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVS DTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVA AVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGE GMDMEFTEAESNMNDLVSEYQQYQDATAEEEEGEFE EEAEEVA

1519/2825
FIGURE 1351

GCGGGCGCATGCGCAAGGGGGCGCGCCGCCTCTGCCCCGCGGCGAGGGTGTCTATGGAGAGGCGGCGGCCGCGGC
TGCTGAGGCGGAGGCTGAGGCAGTGGCG**ATG**CGCCCTTTTCCTGAAGAAGTGGACGTCTTCACCGCCCCACACTG
GCGGATGAAGCAGCTGGTGGGGCTCTACTGCGACAAGCTTTCTAAAACCAATTTTTTCCAACAACAACGATTTCCG
TGCTCTTCTGCAGTCTTTGTATGCTACTTTCAAGGAGTTCAAAATGCATGAGCAGATTGAAAATGAATACATTAT
TGGTTTGGCTTCAACAACGCAGCCAGACCATTATATAATGTACATTCTGACAATAAACTCTCCGAGATGCTTAGCCT
CTTTGAAAAGGGACTGAAGAATGTTAAGAATGAATATGAACAGTTAAATTATGCAAAACAACCTGAAAGAGAGATT
GGAGGCTTTTACAAGAGATTTTCTTCTCACATGAAAAGAGGAAGAGGAGGTTTTTTCAGCCCATGTTAATGGAATA
TTTTACCTATGAAGAGCTTAAGGATATTAAGAAAGAAAGTGAATGCACAACACTGCTCTCAGAAGGATACTGCAGA
ACTCCTTAGAGGTCTTAGCCTATGGAATCATGCTGAAGAGCGACAGAAGTTTTTTAAATATTCCGTGGATGAAAA
GTCAGATAAAGAAGCAGAAGTGTGCAAACTCCACAGGTATAACCCATCTTCTCCTGAGGTAATGCTGTCAAT
TTTCAGCTATCTTAATCCTCAAGAGTTATGTGATGCAGTCAAGTAAGCATGAAATGGTCTCAGCTGACAAAAAC
GGGATCGCTTTGGAAACATCTTTACCCTGTTCAATTGGGCCAGAGGTGACTGGTATAGTGGTCCCGCAACTGAACT
TGATACTGAACCTGATGATGAATGGGTGAAAAATAGGAAAGATGAAAGTCGTGCTTTTCATGAGTGGGATGAAGA
TGCTGACATTGATGAATCTGAAGAGTCTGCGGAGGAATCAATTGCTATCAGCATTGCACAAATGAAAAACGTTT
ACTCCATGGCTTAATTCATAACGTTCTACCATATGTTGGTACTTCTGTAAAAACCTTAGTATTAGCATACAGCTC
TGCAGTTTCCAGCAAAATGGTTAGGCAGATTTTAGAGCTTTGTCCTAACCTGGAGCATCTGGATCTTACCAGAC
TGACATTTAGATTCTGCATTTGACAGTTGGTCTTGGCTGGTTGCTGCCAGAGTCTTCGGCATCTTGATCTGTC
TGGTTGTGAGAAAATCACAGATGTGGCCCTAGAGAAGATTTCCAGAGCTCTTGAATTCTGACATCTCATCAAAG
TGGCTTTTTGAAAACATCTACAAGCAAAATTACTTCAACTGCGTGGAAAAATAAAGACATTACCATGCAGTCCAC
CAAGCAGTATGCCTGTTTGACGATTTAACTAACAAGGGCATTGGAGAAGAAATAGATAATGAACACCCCTGGAC
TAAGCCTGTTTCTCTGAGAATTTCACTTCTCCTTATGTGTGGATGTTAGATGCTGAAGATTTGGCTGATATTGA
AGATACTGTGGAATGGAGACATAGAAATGTTGAAAGTCTTTGTGTAATGGAAACAGCATCCAACCTTTAGTTGTTT
CACCTCTGGTTGTTTTAGTAAGGACATTGTTGGACTAAGGACTAGTGTCTGTTGGCAGCAGCATTGTGCTTCTCC
AGCCTTTGCGTATTGTGGTCACTCATTTTGTGTACAGGAACAGCTTTAAGAACTATGTCATCACTCCAGAAATC
TTCTGCAATGTGTAGAAAAGCAGCAAGGACTAGATTGCCTAGGGGAAAAGACTTAATTTACTTTGGGAGTGAAAA
ATCTGATCAAGAGACTGGACGTGTACTTCTGTTTCTCAGTTTATCTGGATGTTATCAGATCACAGACCATGGTCT
CAGGGTTTTGACTCTGGGAGGAGGGCTGCCTTATTTGGAGCACCTTAATCTCTCTGGTTGTCTTACTATAACTGG
TGCAGGCCTGCAGGATTTGGTTTCAGCATGTCTTCTCTGAATGATGAATACTTTTACTACTGTGACAACATTAA
CGGTCTCATGCTGATACCGCCAGTGGATGCCAGAATTTGCAGTGTGGTTTTTCGAGCCTGCTGCCGCTCTGGCGA
ATGACCTTTGACTTCTGATCTTTGTCTACTTCAATTTAGCTGAGCAGGCTTTCTTTTCATGCACTTTACTCATAGCA
CAATTTCTTGTGTTAACCATCCCTTTTTGAGCGTGACTTGTTTTGGCCCCATTTCTTACAACCTTCAGAAATCTTAA
TTTACCAGTGAATTGTAATGTTGTTTCTCTTGCAAATTATACTTTTGGTTTAGAAAGGGATTAGGTCTTTTCAA
AGGGTGAGAACAGTCTTACATTTTTCTTTTAAATGAAATGCTTTAAAGAATGTTGGTAATGCCATGTCATTTAA
GTATTTCATAGATAATTTTGAATTTTAAAGTCCATGGAGGTGATTGGTTCTTTTACACATTAACACTGTACCAA
GCTTTGCAGATCTTTTCCGACACACATGTCTGAAGACTTATTTCAAAGACAGCACATTTTGGAAACTAATCTC
TTTTCCGTAATATTTCTTTTATTTCAATGATTCTCAGAAGGCCAATTCAAACAACCCACATTTAAGGTTCTTTA
GGATTATAGAATAAATTGGCTTCTGAGTGTAGCTCAGTGAGCTAGGAAAGCACCATCGATATTTGTTTCCTTT
AGGGATACTTTGTTCTCACCCTGTCCCTATGTCATCAAATTTGGGAGAGATTTTTTAAATACCACAATCATTT
GAAGAAATGTATAAATAAATCTACTTTGAGGACTTTACCAAGTAATACTGTTGTGTTGTGATTTTTATTATAAA
TCTCAATCCAGGTTTACTTTAGTATAGAATAGGACTACATACTTTGTCTTTGGACCTCCCATGAACTTATTACCC
TGACAAATAGTTTTAGACAGATACTGAATTTTATTGAGCTGAATTTTCTTTTTGAAATGAGTTATTAGTAGTCA
AAATTTGAATCCGTAAGTATATCTACTTTGCTTTGTTAAACATCATGAGAGTGGAGGCCTGCCACCCAGAAAGG
CACATACTAGTGCTTTTAGTACAATTTTATGTCATGTAGAAGAAAAATGGCAATGTTCTCTCTATTGATACAGAT
ACAGGCATATGTCATCTTATTGCGTTTTGCTTTATTGCACTTTGCAAATAATGCATTTTTTACAAATGGAAGGTT
TATGGCAACTCTGCGTTGAGCCAGTCTATTGGTGCCATGTTTCCAATAAACTTCTCTTTTCATGTCTCGT

1520/2825
FIGURE 1352

MAPFPPEVDVFTAPHWRMKQLVGLYCDKLSKTNFSNNNDFRALLQSLYATFKEFKMHEQIENEYIIIGLLQQRSQT
IYNVHSDNKLSEMLSLFEKGLKNVKNEYEQNLNYAKQLKERLEAFTRDFLPHMKEEEEVFQPMLMEYFTYEELKDI
KKKVIAQHCSQKDTAELLRGLSLWNHAEERQKFFKYSVDEKSDKEAEVSEHSTGITHLPPEVMLSIFSILNPQEL
CRCSQVSMKWSQLTKTGSLWKHLYPVHWARGDWYSGPATELDEPDEWVKNRKDESRAFHEWDEDADIDEESES
AEESIAISIAQMEKRLHGLIHNVLPHYVGTSVKTLVLAYSSAVSSKMVRQILELCPNLEHLDLTQTDISDSAFDS
WSWLGCCQSLRHLDLSGCEKITDVALEKISRALGILTSHQSGFLKTSTSKITSTAWKNKDITMQSTKQYACLHDL
TNKGIGEEIDNEHPWTKPVSSNFSTSPYVWMLDAEDLADIEDTVEWRHRNVESLCVMETASNFSCSTSGCFSDKI
VGLRTSVCWQQHCASPAFAYCGHSFCCTGTALRTMSSLPESAMCRKAARTRLPBGKDLIYFGSEKSDQETGRVL
LFLSLSGCYQITDHGLRVLTLGGGLPYLEHLNLSGCLTITGAGLQDLVSACPSLNDEYFYYCDNINGPHADTASG
CQNLQCGFRACCRSGE

1521/2825
FIGURE 1353

AGTGCGCATCCGGACGTAGGAGGTGGAGGTTGTGGAATTCGCCGTTTCGAAAGCAGGGACTAAAAGCCCCACTTCG
TCTTACGTTCCGAAAGGAAGGCGTCTGTTGAGCCTTTCTCTCAGTCGTGAGGGAGGCGTCGACGGCGTGCGGAAG
TCCTGAGTTGAGGCTTGCGGGATCCTTTCCGGAGAAAGCGCAGGCTAAAGCCGCAGGTGAAGATGTTCCAACACTACG
TGAACGACATGTGGCCGGGCTCGCCGCAGGAGAAGGATTTCGCCCTCGACCTCGCGGTTCGGGCGGGTCCAGCCGGC
TGTCGTTCGCGGTCTAGGAGCCGCTCTTTTTCCAGAAGCTCTCGGTCCCATTCCCGCGTCTCGAGCCGGTTTTTCGT
CCAGGAGTCGGAGGAGCAAGTCCAGGTCCCGTTCCCGAAGGCGCCACCAGCGGAAGTACAGGCGCTACTCGCGGT
CATACTCGCGGAGCCGGTCGCGATCCCGCAGCCGCCGTTACCGAGAGAGGCGCTACGGGTTACACAGGAGATACT
ACCGGTCTCCTTCGCGGTACCGGTCCCGTCCCGTAGCAGGTTCGCGCTCTCGGGGAAGGTCGTACTGCGGAAGGG
CGTACGCGATCGCGCGGGGACAGCGCTACTACGGCTTTGGTCGCACAGTGTACCCGGAGGAGCACAGCAGATGGA
GGGACAGATCCAGGACGAGGTTCGCGGAGCAGAACCCCTTTTCGCTTAAGTGAAAAAGATCGAATGGAGCTGTTAG
AAATAGCAAAAACCAATGCAGCGAAAGCTCTAGGAACAACCAACATTGACTTGCCAGCTAGTCTCAGAAGCTGTTT
CTTCAGCCAAAGAAACAAGCCGTGGAATAGGTGTATCAAGTAATGGTGCAAAGCCTGAAGTAAGTATTCTAGGTT
TGTCGGAACAAAACCTTTTCAGAAAGCCAACCTGTCAAATCTGATTAGCCACTTATATCTTAGACTATACTTTTTGGG
AAGTCTAGAGATGTATATAATGTGCTAAATTCAAAGTAGCAAATCTGAAGATAGGCAATGTCAAACCCATGAAAA
TGGGAGATTAATGAGCTTTATTTGGCCGTGCATGGTGCCCTCATGCCTGTAATGAGGCAGATGGCTTGAGTCCAGG
AGTTCAAGACTAGCCTGGGCAATGTGGCAAACCGCGTGTTTACAAAAAATACAAAAATTAGCCAGGCATGGTGG
TGCATGCCTGTAGTCCCAGCTGTTTGGGAGGCTGAGGCAGGAGGATCTTTGAGCCTAGGATGCTAAGGTTGCAGT
GAGCCAAGATGGCACCATTGCACTCTAGCCTGGGCAGCAGAGCGAGACCCTGTCTCAAAAAATACATTTATTTTT
TTCATTTTCAGTTAACAGTGTACTCTTATAACACCGTTATTAGCTGGTACTTTGGTGATTTCTATTACTAGTTTT
TCTAAGCTATTTACAGAGTGTTTGTAGCTTTTCAATTTGCAGCATTATGTTCCACAAATTCTGTACTCAGCATATA
CAGTATAGTTTATCTGCTCTATTTCTGTCTTATAGAAATCATGAATGTGGTCTGCAGACATTGATGAAGAAAATC
TGTTGGTAATTGATACATGGGCTAAAGCATCAGAGGTTTAATTTGAAGTTTATGTTTACACACTGAAAACTTAGT
TTTTTTGTTGGTAGATCCATGTGCATGCTAGAATTTGGGACAGGCCTATTTGCATAAAGTATTAAAGTCAATTT
TTAAACTAAGCAAAGGTACACGTTGTAACGGTGGGGCATCTGTGAAAAAGATGTCCCTTTTCATAATATATGCAAT
ATATTCCAGATGTTTTGAGAGATTACAGAAGAGGAGGCCTGCTTCACCTTGAGATAAGTTTATTATAATTCTCCA
GAAATGTGCAGGATGTGCATTAGCAAATTGCACTGTACTTTTCACTCCAGCCTGGGTGACAGAGCAAGACTCCCG
TCTCGGGGGCTT

1522/2825
FIGURE 1354

MSNYVNDMWPGSPQEKDSPSTSRSGGSSRLSSRSRSRSFSRSSSRSHSRVSSRFSSRSRRSKRSRSRRRHQKYYR
RYSRSYSRSRSRSRSRRYRERRYGFTRRYRSPSRYSRSRSRSRSRGRSYCGRAYAIARGQRYYGFGRTVYPEE
HSRWRDRSRTRSRSRTPFRLSEKDRMELLEIAKTNAAKALGTTNIDLPA SLRTVPSAKETSRGIGVSSNGAKPEV
SILGLSEQNFQKANCQI

1523/2825
FIGURE 1355

GGACGTAGGAGGTGGAGGTTGTGGAATTCGCCGTTTCGAAAGCAGGGACTAAAAGCCCCACTTCGTCTTACGTTCC
GAAAGGAAGGCGTCTGTTGAGCCTTTCTCTCAGTCGTGAGGGAGGCGTCGACGGCGTGCGGAAGTCCTGAGTTGA
GGCTTGCGGGATCCTTTCCGGAGAAAGCGCAGGCTAAAGCCGCAGGTGAAGATGTCCAACCTACGTGAACGACATG
TGGCCGGGCTCGCCGCAGGAGAAGGATTGCCCTCGACCTCGCGGTGCGGCGGGTCCAGCCGGCTGTCGTGCGCG
TCTAGGAGCCGCTCTTTTTCCAGAAGCTCTCGGTCCCATTCGCCGCTCTCGAGCCGGTTTTTCGTCCAGGAGTCGG
AGGAGCAAGTCCAGGTCCCGTTCCCGAAGGCGCCACCAGCGGAAGTACAGGCGCTACTCGCGGTCATACTCGCGG
AGCCGGTCGCGATCCCGCAGCCGCCGTTACCGAGAGAGGCGCTACGGGTTTACCAGGAGATACTACCGGTCTCCT
TCGCGGTACCGGTCCCGGTCCCGTAGCAGGTGCGGCTCTCGGGGAAGGTTCGTACTGCGGAAGGGCGTACGCGATC
GCGCGGGGACAGCGCTACTACGGCTTTGGTCGCACAGTGTACCCGGAGGAGCACAGCAGATGGAGGGACAGATCC
AGGACGAGGTGCGGAGCAGAACCCCTTTTCGCTTAAGTGAAAAAGATCGAATGGAGCTGTTAGAAATAGCAAAA
ACCAATGCAGCGAAAGCTCTAGGAACAACCAACATTGACTTGCCAGCTAGTCTCAGAACTGTTCCCTTCAGCCAAA
GAAACAAGCCGTGGAATAGGTGTATCAAGTAATGGTGCAAAGCCTGAACTGTGCGAAAAGGTAACAGAAGATGGA
ACTCGAAATCCCAATGGAACCTACCCAGCAAAGAAGCATAGCTTTTAGCTCTAATAATTCTGTAGCAAAGCCA
ATACAAAAATCAGCTAAAGCTGCCACAGAAGAGGCATCTTCAAGATCACCAAAAAATAGATCAGAAAAAAGTCCA
TATGGACTGTGGATACCTATCTAAAAGAAGAAAAGTATGGCTAAGTTTGCATGAAAAGTGCACCTTTATTGCAAG
TTAGTGTTTCTAGCATTATCCCATCCCTTTGAGCCATTGAGGGGTACTTGTGCATTTAAAAACCAACACAAAAAG
ATGTAAATACTTAACACTCAAATATTAACATTTTAGGTTTCTCTTGAGATATGAGAGATAGCACAGATGGACCA
AAGGTTATGCACAGGTGGGAGTCTTTTGTATATAGTTGTAAATATTGTCTTGGTTATGTAAAAATGAAATTTTTT
AGACACAGTAATTGAACTGTATTCTGTTTTGTATATTAATAAATTTCTTGTTTTTCATTCTTAAAAAAAAAAAAA
AAAAAA

1524/2825
FIGURE 1356

GCGAGTTGTGTGAGCCGCCAGTATGGCCGGGCT**ATG**GCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCG
CGGTGCTGGGTGCTGCGGCGGCCGATGCTGGCCGCCCGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTG
CTCCGAGGCCAGCGGACCTGCGACGCCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGCAATTGGGGGCCAA
TGGCGGGGGTTTTGGGAAGCGAGCAGCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCCTCCGAGGGCGGC
GCGGAGGAAGGAGCCGGCGGCGCGGGGGGCGAGCGCGGGCGCCGGGAAGGCCCGGTCAACGGCGCTCACGCC
ATGACGATCCCCGATGTGTTTTCCGCACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCCGCTTTATC
AAGATTATCGAGGTTAAAAATAAGAAGTTGGTTGAGCTGCTGAGAAGGAAAGTTTCGTCTCGCCCAGCCTTATGTC
GGCGTCTTTCTAAAGAGAGATGACAGCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGG
ACGTTTGGCCAGATCCATGAGATGCAGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTC
CATATCAGCAGACAGCTGGAGGTGGAGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCCGAGGAAGTCA
AAGCGGGGCAAGAAGGAGGCGGAGGACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCACCCCT
GAGCTCCCGGCTGAGGTGCTCATGGTGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACCGGAGGAGGTG
AAAGCCCTGACTGCAGAGATCGTGAAGACCATCCGGGACATCATTGCCTTGAACCTCTCTACAGGGAGTCAGTG
CTGCAGATGATGCAGGCTGGCCAGCGGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACC
GGGGCCGAGTCCCATGAGCTGCAGGACGTCTTGAAGAGACCAATATTCTAAGCGGTGTACAAGGCCCTCTCC
CTGCTGAAGAAGGAATTTGAACTGAGCAAGCTGCAGCAGCGCCTGGGGCGGGAGGTGGAGGAGAAGATCAAGCAG
ACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAAAGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAG
GATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGAAGGAGCTCGTGGTCCCAAGCACGTATGGATGTTGTGGAC
GAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACCACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGG
CTCACGTCCATCCCTTGGGGCAAGTACAGCAACGAGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAA
GACCACTACGGCATGGAGGACGTCAAGAAACGCATCCTGGAGTTCAATTGCCGTTAGCCAGCTCCGCGGCTCCACC
CAGGGCAAGATCCTCTGCTTCTATGGCCCCCTGGCGTGGGTAAAGACCAGCATTGCTCGCTCCATCGCCCCGCGC
CTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGGGCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACC
TACGTGGGCGCCATGCCCCGGAAGATCATCCAGTGTTTGAAGAAGACCAAGACGGAAGACCCCTGATCCTCATC
GACGAGGTGGACAAGATCGGCCGAGGCTACCAGGGGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAG
CAGAATGCCAACTTCCTGGACCACTACCTGGACGTGCCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCC
AACGTACGGACACCATCCCCGAGCCGCTGCGAGACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAG
GAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGCCCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCC
AAGCTGTATCGGACGTGCTGACGCTGCTCATCAAGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAG
CAAGTGGAGAAGGTGTTACGGAAATCGGCCTACAAGATTGTACGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCC
GAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGTTCACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTG
GTCATGGGGCTGGCCTGGACCGCAATGGGAGGCTCCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGAC
AAGGATGCCAAGGGTGACAAGGATGGCAGCCTGGAGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCC
CGCATAGCCTACACCTTCGCCAGAGCCTTCCTCATGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACAC
ATCCACCTGCATGTGCCCCAGGGCGCCACCCCCAAGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTG
CTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGAATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATC
CTGCCTGTTGGTGGCATCAAGGAGAAGACCATTGCGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCTGCCAGCC
GAGAACAAGAAGGACTTCTACGACCTGGCAGCCTTCATCACCGAGGGCTGGAGGTGCACTTCGTGGAACACTAC
CGGGAGATCTTCGACATCGCCTTCCCGGACGAGCAGGCAGAGGCGCTGGCCGTGGAACGGT**GAC**GGCCACCCCGG
GACTG**C**AGGCGGCGGATGTCAGGCCCTGTCTGGGCCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAG
TGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGACCCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGC
ATAGAAGCTATTTAATGATTAAAGTCATTTGCAGTA

1525/2825
FIGURE 1357

MAASTGYVRLWGAARCWVLRRLPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWALWGRGPAIGGQWRGFWEASSRG
GGAFSGGEDASEGGAEEGAGGAGGSAGAGEGPVITALTPMTIPDVFPHLPLIAITRNPVFPRFIKIEVKNKKLV
ELLRRKVRLAQPYVGVFLKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEPE
EPEAENKHKPRRKS KRKKEAEDELSARHPAELAMEPTPELPAEVL MVEVENVHEDFQVTEEVKALTAEIVKTI
RDIIALNPLYRESVLQMMQAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFELSKL
QQRLGREVEEEKIKQTHRKYLLQEQLKIIKKELGLEKDDKDAIEEKFRERLKELVVPKHVMDVVDEELSKLGLLDN
HSSEFNVTRNYLDWLTSIPWGKYSNENLDLARAQAVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGGP
GVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPKIIQCLKKTKTENPLILIDEVDKIGRGYQ
GDPSSALLELLDPEQNANFLDHYLDVPVDLSKVLFICTANVDTIPEPLRDRMEMINVSQYVAQEKLAIAERYLV
PQARALCGLDESKAKLSSDVLTLIKQYCRESGVRNLQKQVEKVLKRSAYKIVSGEAESEVTPENLQDFVGKPV
FTVERMYDVTPPGVVMGLAWTAMGGSTL FVETSLRRPQDKDAKGDKDGSLEVTGQLGEVMKESARIAYTTFARAFL
MQHAPANDYLVTSIHHLHVPEGATPKDGPSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTI
AAKRAGVTCIVLPAENKKDFYDLAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVR

1526/2825
FIGURE 1358A

TCAACATATGAAAAATCAATGTAATATTTTCATATTAACAGTTGGAAGACTCACAATTCATAGTTTCAGAATTTAC
AACACAAACCTACAGGAATAAAGACAATGTAGTATTAGAATAAGGTCAGATATATAGATCAATGGACAGAATTGA
CAGTCCAGAAATACACCCATACGATTACGGTCACCTGATTTTTGACTAAGGTTCCAAAACAATTCAGTGGGGAA
AGAATAGTCTTGTCAAAAAATGGTGCTCAGACAAAGTGGATAGCCATAAGCACAGAATGAGTTTGGACCCCTATCT
CAAATCTCAAATACAAACATTAACCTCCGAATTAATCAAATGCCTAAATTTAAGAGCTAAAAATTTTAAAGCTCTTA
GAAGAAAACATAGGTACACATCTTTGTGACTTTGAATTAGGTCACGGTTTCCTTGACATGACACTTAAAAGTACA
AGCAACAAAAGAAAAAATAGATAAAATGAACTTCAGCAAAATTAGAATGTTTATGCTTCAGAAAAACTGTGAA
GAAAGTGATCAGACAACTCACAGAATGGGAAAAATATTTGTGAATCATATCTCTTAATAAGGGTCCAGCAGAAAA
GGGCAAAGGTGGAAATGGAGGAGGAAAAACCTCCTTCTGGTCCAAACCGAATGAATGGTCATCACCAACAGAATGG
AGTGGAAAACATGATGTTGTTTGAAGTTGTTAAATGGGCAAGAGTGCTATGCAGTCGGTGGTAGATGATTGGAT
AGAATCATACAAGCATGACCGAGATATAGCACTTCTTGACCTTATCAACTTTTTTATTTCAGTGTTTCAGGCTGTAA
AGGAGTTGTACAGCAGAAATGTTTAGACATATGCAGAACTCTGAGATAATTCGAAAAATGACTGAAGAATTCGA
TGAGGATAGTGGAGATTATCCACTTACCATGGCTGGTCTCAGTGGAAGAAGTTCAAATCCAGTTTTTGTGAATT
CATTGGCGTGTTAGTACGGCAATGTCAATATAGTATCATATATGATGAGTATATGATGGATACAGTCATTTCACT
TCTTACAGGATTGTCTGACTCACAAGTCAGAGCATTTCGACATACAAGCACCTGGCAGCTATGAAGTTGATGAC
AGCTTTGGTGAATGTGGCACTAAATCTTAGCATTAAATATGGATAATACACAAAGACAATATGAAGCAGAACGAAA
TAAATGATTGGGAAACGAGCCAATGAGAGGCTAGAATCCTGCTACAAAAGCGGAAAGAGCTTCAGGAAAATCA
AGATGAAATAGAAAATATGATGAATGCAATATTTAAAGGAGTGTTTGTACATAGATACCGTGATGCGATACGTGA
AATTCGAGCTATTTGCATTGAAGAGATTGGCATTGGATGAAGATGTATAGTGATGCCTTTCTTAATGACAGTTA
TTTAAATATGTTGGTTGGACTATGCATGATAAGCAAGGTGAAGTAAGACTCAAATGTCTTACTGCTCTACAAGG
GCTTTATTATAACAAAGAGCTTAATTCCAACTGGAATTTTTACCAGTCGGTTCAAGGATAGAATTGTGTCTAT
GACCTTGACAAAGAATATGATGTTGCAGTACAAGCAATAAAATTACTCACTCTTGTTTTACAGAGTAGTGAAGA
AGTTCTCACTGCAGAAGATTGTGAAAATGTCTATCATCTGGTTTTATTTCAGCTCACCGGCCAGTAGCAGTAGCAGC
TGGAGAATTTCTCTACAAAAGCTCTTCAGTCGTAGAGATCCAGAGGAGGATGGAATGATGAAAAGAAGAGGAAG
ACAAGGTCCAAATGCCAACCTTGTTAAGACATTGGTTTTTTTTCTTTCTAGAAAAGTGAGTTACATGAGCATGCAGC
ATACCTTGTTGGATAGCATGTGGGACTGTGCTACTGAGCTGCTGAAAGACTGGGAATGTATGAATAGCTTGTTACT
GGAAGAGCCACTTAGTGAGAGGAAGCACTAACAGATAGGCAAGAGAGTGCTCTGATTGAAATAATGCTTTGTAC
CATTAGACAAGCGGCTGAATGTCATCCTCCCGTGGGAAGAGGGACAGGAAAAAGGGTGCTTACAGCAAAAGGAGAA
GAAGACACAGTTGGATGATAGGACAAAAATCACTGAGCTTTTTGCCGTGGCCCTTCCTCAGTTATTAGCAAAATA
CTCTGTAGATGCAGAAAAGGTGACTAACTTGTTGCAGTTGCCTCAGTACTTTGATTTGAAATATATACCACTGG
ACGATTAGAAAACGATTGTTGATGCCTTATTGCGACAGATCCGGAATATTGTAGAGAAGCACACAGATACAGATGT
TTTGGAAAGCATGTTCTAAAACCTTACCATGCACCTCTGTAATGAAGAGTTCACAATCTTCAACAGAGTAGATATTT
AAGAAGTCAACTGATAGATGAATTGGCAGATAAATTTAACCAGCTTCTTGAAGATTTTCTGCAAGAGGGTGAAGA
ACCTGATGAAGATGATGCATATCAGGTATTGTCAACATTGAAGAGGATCACTGCTTTTCATAATGCCCATGACCT
TTCAAAGAGGGATTTATTTGCTTGTAATTACAACTCTTGAAAACCTGGAATCGAAAATGGAGACATGCCTGAGCA
GATTGTTATTCACGCACTGCAGTGTACTCACTATGTAATCCTTTGGCAACTTGCTAAGATAACTGAAAGCAGCTC
TACAAAGGAGGACTTGCTGCGTTTTAAAGAAACAAATGAGAGTATTTTGTGAGATATGTCAACATTACCTGACCAA
CGTGAATACTACTGTTAAGGAACAGGCCTTCACTATTCTGTGTGATATTTTGATGATCTTCAGCCATCAGATTAT
GTCAGGAGGGCGTGACATGTTAGAGCCATTAGTGATATACCCCTGATTCTTCATTGCAGTCTGAGTTGCTCAGCTT
TATTTTGGATCATGTCTTCATTGAACAGGATGATGATAATAATAGTGCAGATGGTCAGCAAGAGGATGAAGCCAG
TAAAATTGAAGCTCTGCACAAGAGAAGAAATTTACTTGCAGCATTTTGTAAGCTAATTGTATATACTGTGGTGGGA
GATGAATACAGCTGCAGATATCTTCAAACAGTATATGAAGTATTATAATGACTATGGAGATATCATCAAAGAAAC
AATGAGTAAAAACAAGGCAGATAGACAAAATTCAGTGTGCTAAGACCCCTTATTCTCAGTCTGCAACAGCTTTTTAA
TGAAATGATACAAGAAAATGGCTATAATTTTGATAGATCATCCTCTACATTTAGTGGCATAAAAGAACTTGCTCG
ACGTTTTGCTTTAACTTTTGGACTTGATCAGTTGAAAACAAGAGAAGCCATTGCCATGCTACACAAAGATGGCAT
AGAATTTGCTTTTAAAGAGCCTAATCCGCAAGGGGAGAGCCATCCACCTTTAAATTTGGCATTCTTTGATATTCT
GAGTGAAATTTCTTCTAACTACTTCGACAAGACAAAAGAACAGTGTATGTTTACTTGGAAAAGTTTCATGACCTT
TCAGATGTCACCTCCGAAGAGAGGATGTGTGGCTTCCACTGATGTCTTACCGAAATCTTTGCTAGCTGGTGGTGA

1527/2825
FIGURE 1358B

TGATGACACCATGTCAGTCATTAGTGGAATCAGCAGCCGGGGGTCAACAGTACGGAGTAAAAATCAAAACCATC
TACAGGAAAACGGAAAGTGGTTGAGGGCATGCAGCTTTCCTCACTGAAGAAAGTAGTAGTAGTGACAGTATGTG
GTTAACGAGAGAACAAACACTGCACACCCCTGTTATGATGCAGACACCACAACCTCACCTCCACTATTATGAGAGA
GCCCCAAAAGATTACGGCCTGAGGATAGCTTCATGAGTGTTTATCCTAAGCAGACTGAACATCATCAAAACACCTCT
TGATTATAATCGGCGTGGCACAAGCCTAATGGAAGATGATGAAGAGCCAATTGTGGAAGATGTTATGATGTCCTC
AGAAGGGAGGATTGAGGATCTTAATGAGGGAATGGATTTTGACACCATGGATATAGATTTGCCACCATCAAAGAA
CAGACGAGAGAGAACAGAACTGAAGCCTGATTTCTTTGATCCAGCTTCAATTATGGATGAATCAGTTCTTGGAGT
GTCAATGTTTTAATACCAGTACACAATTAAATCTGTGGTGAAGTC

1528/2825
FIGURE 1359

MNGHHQQNGVENMMLFEVVKMGKSAMQSVVDDWIESYKHDRDIALLDLINFFIQCSGCKGVVTAEMFRHMQNSEI
IRKMTEEFDEDSGDYPLTMAGPQWKFKSSFCEFIGVLVRQCQYSIIYDEYMMDTVISLLTGLSDSQVRAFRHTS
TLAAMKLM TALVNVALNLSINMDNTQRQYEAERNKMIGKRANERLELLLQKRKELQENQDEIENMMNAIFKGVFV
HRYRDAIREIRAICIEEIGIWMKMYSDAFLNDSYLKYVGWTMHDKQGEVRLKCLTALQGLYYNKELNSKLELEFTS
RFFKDRIVSMTLDKEYDVAVQAIKLLTLVLQSSEEVLTAEDCENVYHLVYSAHRPVAVAAGEFLYKKLFSRRDPEE
DGMMKRRGRQGPANANLVKTLVFFFLSESELHEHAAYLVDSMWDCATELLKDWECMNSLLLEEPLSGEEALTD RQES
ALIEIMLCTIRQAACHPPVGRGTGKRVLTAKKKTQLDDRTKITELFAVALPQLLAKYSVDAEKVTNLLQLPQY
FDLEIYTTGRLENDLDALLRQIRNIVEKHTD TDVLEACSKTYHALCNEEFTIFNRVDISRSQLIDELADKFNRL
EDFLQEGEEPDEDDAYQVLSTLKRI TAFHNAHDL SKRDLFACNYKLLKTGIENGDMPEQIVIHALQCTHYVILWQ
LAKITESSTKEDLLRLKKQMRVFCQICQHLYLTNVNTTVKEQAFTILCDILMIFSHQIMSGGRDMLEPLVYTPDS
SLQSELLSFILDHVFIEQDDDNNSADGQQEDEASKIEALHKRRNLLAAFCKLIVYTVVEMNTAADIFKQYMKYYN
DYGDI IKETMSKTRQIDKIQCAKTLILSLQQLFNEMIQENGYNFDRSSSTFSGIKELARRFALT FGLDQLKTREA
IAMLHKDGI EFAFKEPNPQGESHPLNLAFLDILSEFSSKLLRQDKRTVYVYLEKFMTFQMSLRREDVWLP LMSY
RNSLLAGGDDDTMSVISGISSRGSTVRSKKSKPSTGKRKVVEGMQLSLTESSSSDSMWLTREQTLHTPVMMQTP
QLTSTIMREPKRLRPEDSFMSVYPKQTEHHQTPLDYNRRGTS L MEDDEEPIVEDVMMSSSEGRIEDLNEGMDFDTM
DIDLPPSKNRRRETELKPDFFDPASIMDESVLGVSMF

1529/2825
FIGURE 1360

CTTTTTCTCCATCTCAGAACCTTCCTGCCGTCGCGTTTGCACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAAC
CTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAA
AATTAAATTTTAACC**ATG**AGGGAAATCGTGACATCCAGGCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTC
TGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAC
CGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAATAIGTTTCCTCGTGCCATCCTGGTGGATCTAGAACCT
GGGACCATGGACTCTGTTTCGCTCAGGTCCCTTTTGCCAGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCT
GGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTCGGATGTGGTA
CGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTCCAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCT
GGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCATGAATACCTTCAGTGTGGTG
CCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTACAATGCCACCCTCTCCGTCCATCAGTTGGTAGAGAAT
ACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATCTGCTTCCGCACTCTGAAGCTGACCACACCA
ACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATGAGTGGTGTACCACCTGCCTCCGTTTCCCTGGCCAG
CTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTCCCTTCCACGTCTCCATTTCTTTATGCCTGGCTTT
GCCCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGAT
GCCAAGGACATGATGGCTGCCTGTGACCCCCGCCACGGCCGATACCTCACCCTGGCTGCTGTCTCCGTGGTCGG
ATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATC
CCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAAT
AGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGGAAGGCCTTCCTC
CACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCT
GAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCGAAGAGGAGGCC**TAA**

GGCAGAGCCCCATCACCTCAGGCTTCTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCCTTCTCTCCCTCAG
AATTTGTGTTTGCTGCCTCTATCTTGTGTTTTTGTGTTTTTCTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACAT
AGTAGGCGCTCAATAAATACTTGTTTGTTGAAAAAAAAAAAAAAAAA

1530/2825
FIGURE 1361

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEAEA

1531/2825
FIGURE 1362

TGTTCCGCGATCTTCTCAGGCTCTCCTAGCAGCATCCATCGCCGCCACCCTATCTTCACTGGCTTCACCTTCTCC
TTCTCTCTTCGTTGCTGAGCGACAAGCTTCCTAGCGCTATGACTGTCGTCTCCGTCCCGCAGCGGGAGCCGCTCG
TCCTGGGTGGCCGCTTGCGCCGCTTGGCTTTTCTCCCGAGGTTACTTTGGGGCCCTCCCGATGGTGACCACGG
CTCCGCTCCTTTACCCCGGATCCCGGACCCCGGGCACTGCCCCGACCCCTCTTCTCCTCCTCATTTCTAGGGG
GAGATGGCCCGTGTCTGACCCCCAGCCTCGCGCTCCAGCAGCTCTGCCCAACCGCAGCCTCGCCGTGGCGGGAG
GCACTCCTCGGGCAGCGCCGAAGAAGCGGGCGAAAGAAGGTGCGGGCCAGCCCGCAGGGCAGCTGCCAGCC
GCTTCCACCAGTACCAGCAGCACCGGCCGAGTCTGGAGGGCGGGCCGGAGCCCGCGACCGGCCGAGCGGAGCGC
AGGAGGTCCCGGGCCCGGCCGCGCCTTGCCCCGAGTCTGCAGCCGCAGCCGGCACGGAGGGAGCCAGCCCCG
ACCTTGCCCCGCTGCGGCCCGCGGCTCCCGGCCAAACCCCCCTCAGGAAAGAGGTTTTTAAATCAAAGATGGGAA
AATCGGAGAAAATTGCCCTTCCCATGGCCAGCTTGTTTCATGGTATACACTTGTATGAGCAACCAAAGATAAACA
GACAGAAAAGCAAATATAACTTGCCACTAACCAAGATCACCTCTGCAAAAAGAAATGAAAACAACCTTTTGGCAGG
ATTCTGTTTCATCTGACAGAATTCAGAAGCAGGAAAAAAGCCTTTTAAATACCGAGAACATTAAAAATTCGC
ATTTGAAGAAATCAGCATTTCTAACTGAAGTGAGCCAAAAGGAAAATTATGCTGGGGCAAAGTTTAGTGATCCAC
CTTCTCCTAGTGTTCTTCCAAAGCCTCCTAGTCACTGGATGGGAAGCACTGTTGAAAATTCCAACCAAAACAGGG
AGCTGATGGCAGTACACTTAAAAACCTCCTCAAAGTTCAAACCTTAGATTTCAGATTTTCAGTATGTGTGTAAAAAC
ATAATTTTTCCCATATCCCTGGACTCTTGAGAAAATTGGTACAGAAATGGAAATTTGCCTTGTTGCAACATACAA
TTGCAAAAGATGAGTTTTAAAAAATTACATACAAACAGCTTGTTATTATATTTTATATTTTGTAAATACTGTATACC
ATGTATTATGTGTATATTGTTTACACTTGAGAGGTATATTATAGTTTTGTTATGAAAGTATGTATTTTGCCTGC
CCACATTGCAGGTGTTTTGTATATATACAATGGATAAATTTTAAGTGTGTGCTAAGGCACATGGAAGACCGATTT
TATTTGCACAAGGTACTGAGATTTTTTTCAAGAAACAGCTGTCAAATCTCAAGGTGAAGATCTAAATGTGAACAG
TTTACTAATGCACTACTGAAGTTTAAATCTGTGGCACAAATCAATGTAAGCATGGGGTTTGTCTCTAAATTGAT
TTGTAATCTGAAATTACTGAACAACCTCCTATTCCCATTTTTGCTAAACTCAATTTCTGGTTTTGGTATATATCCA
TTCCAGCTTAATGCCTCTAATTTTAATGCCAACAAAATTGGTTGTAATCAAATTTTAAATAATAATAATTGGC
CCCCCTTTTAAATAGTCTTGACTCTTTGTGTGTGACTGTTTCTCATGTTTGAATGTGTGACTAGGAGATGATT
TTGTGTGGTTGGATTTTTTTGACTTCTACTTTACTGGCTGAGTGTGAGCCGCCATGCCTGGCCATAATCTACATT
TTCTTACCAGGAGCAGCATTGAGGTTTTTGGAGCATAGTACTTGACTACTCTAGAGGCTGAGACGGGAGCATCTCT
TGAGCCTGAGAAGTGAGATTGCAATTGAGCTAGGATCAGGCCACTGCACTCCAGCCTGGGTAACAGACGCTGTC
TCAAAAAAAGGCCAAGAGAAAGTAAGGGAGACAGA

1532/2825
FIGURE 1363

MTVVSVFQREPLVLGGRLAPLGFSSRGYFGALPMVTTAPPPLPRIPDPRALPPTLFLPHFLGGDGPCLTPQPRAP
AALPNRSLAVAGGTPRAAPKKRRKKKVRASPAGQLPSRFHQYQQHRPSLEGGRSPATGPSGAQEVPGPAAALAPS
PAAAAGTEGASFDLAPLRPAAPGQTPLRKEVLKSKMGKSEKIALPHGQLVHGIHLYEQPKINRQKSKYNLPLTKI
TSAKRNNENFWQDSVSSDRIQKQEKKPFKNTENIKNSHLKKS AFLTEVSQKENYAGAKFSDPPSPSVLPKPPSHW
MGSTVENSNNQNRELMVHLKTLLKVQT

1533/2825
FIGURE 1364

CCGGCTGCTCAGCGCGCTCCGCGGTCA**ATG**GAGATCCCCGGGAGCTTGTGCAAGAAAGTCAAGCTGAGCAATAACG
CGCAGAACTGGGGAATGCAGAGAGCAACCAATGTCACCTACCAAGCCCATCATGTCAGCAGGAACAAGAGAGGTC
AGGTGGTGGGGACCAGAGGTGGCTTTCGTGGTTGCACAGTTTGGCTAACAGGCTTGTCTGGAGCGGGAAAGACTA
CTGTGAGCATGGCCTTGGAGGAGTACCTGGTTTTGTCATGGTATTCCATGCTACACTCTGGATGGTGACAATATTC
GTCAAGGTCTCAATAAAAAATCTTGGCTTTAGTCCTGAAGACAGAGAAGAGAATGTTTCGACGCATCGCAGAAAGTTG
CTAAACTGTTTGCAGATGCTGGCTTAGTGTGCATCACAAAGTTTCATATCACCTTACACTCAGGATCGCAACAATG
CAAGGCAAATTCATGAAGGTGCAAGTTTACCGTTTTTTGAAGTATTTGTTGATGCTCCTCTGCATGTTTGTGAAC
AGAGGGATGTCAAAGGACTCTACAAAAAGCCCCGGGCAGGAGAAATTAAGGTTTCACTGGGATCGATTCTGAAT
ATGAAAAGCCAGAGGCCCTGAGTTGGTGTGAAAACAGACTCCTGTGATGTAAATGACTGTGTCCAGCAAGTTG
TGGAACCTCTACAGGAACGGGATATTGTACCTGTGGATGCATCTTATGAAGTAAAGAAGTATATGTGCCAGAAA
ATAAACTTCATTGGCAAACAGATGCGGAAACATTACCAGCACTGAAAATTAATAAAGTGGATATGCAGTGGG
TGCAGGTTTTGGCAGAAGGTTGGGCAACCCCATGAATGGCTTTATGAGAGAGAGGGAGTACTTGCAGTGCCTTC
ATTTTGATTGTCTTCTGGATGGAGGTGTCATTAAGTGTGCTAGTACCTATAGTTCTGACTGCGACTCATGAAGATA
AAGAGAGGCTGGACGGCTGTACAGCATTTGCTCTGATGTATGAGGGCCGCCGTGTGGCCATTCTTCGCAATCCAG
AGTTTTTTTGAGCACAGGAAAGAGGAGCGCTGTGCCAGACAGTGGGGAACGACATGCAAGAACCACCCCTATATTA
AGATGGTGATGGAACAAGGAGATTGGCTGATTGGAGGAGATCTTCAAGTCTTGGATCGAGTTTATTGGAATGATG
GTCTTGATCAGTATCGTCTTACTCCTACTGAGCTAAAGCAGAAATTTAAAGATATGAATGCTGATGCTGTCTTTG
CATTTCAACTACGCAACCCAGTGCACAATGGACATGCCCTGTTAATGCAGGATACCCATAAGCAACTTCTAGAGA
GGGGCTACCGGCGCCCTGTCTCCTCCTCCACCCTCTGGGTGGCTGGACAAAGGATGACGATGTTCTTTGATGT
GGCGTATGAAGCAGCATGCTGCAGTGTGGAGGAAGGAGTTCTGAATCCTGAGACGACAGTGGTGGCCATCTTCC
CATCTCCCATGATGTATGCTGGACCAACTGAGGTCCAGTGGCATTGCAGAGCACGGATGGTTGCAGGAGCCAAC
TTTACATTGTTGGACGAGACCCTGCTGGCATGCCTCATCCAGAAACAGGGAAGGATCTTTATGAGCCAAGTCATG
GTGCCAAAAGTGCTGACGATGGCCCTGGTTTTAATCACTTTGGAAATAGTTCCCTTTCGAGTTGCAGCTTACAACA
AGAAAAAGAAAGCGTATGGACTACTATGACTCTGAACACCATGAAGACTTTGAATTTATTTAGGAACACGAATGC
GCAAACTTGCTCGAGAAGGCCAGAAACCACCTGAAGGTTTCATGGCTCCCAAGGCTTGGACCGTGCTGACAGAA
ACTACAAATCCTTGGAGAAAGCT**TAG**GCTGTTAACCCAGTCACTCCACCTTTGACACATTACTAGTAACAAGAGG
GGACCACATAGTCTCTGTTGGCATTCTTTGTGGTGTCTGTCTGGACATGCTTCCTAAAAACAGACCATTTTCCT
TAACTTGCATCAGTTTTGGTCTGCCTTATGAGTTCTGTTTTGAACAAGTGTAACACACTGATGGTTTTAATGTAT
CTTTTCCACTTATTATAGTTATATTCTACAATACAATTTTAAATTTGTCTTTTTTATATTATTTATGCTTCTG
TGTATGATTTTTTCAAGCTGTTATATTAGTTGTAACCAGTAGTATTCACATTAAATCTTGCTTTTTTTCCCTT
AAAAAAAAAAAAAAAA

1534/2825

FIGURE 1365

MEIPGSLCKKVKLSNNAQNWGMQRATNVITYQAAHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTVSMAL E E Y
LVCHGIPCYTLDGDNIRQGLNKNLGFSPEDREENVRRIA EVAKLFADAGLVCITSFISPYTQDRNNARQIHEGAS
LPFFEVFVDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDCDVNDCVQQVV ELLQERDI
VPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGG
VINLSVPIVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHRKEERCARQWGTTCKNHPYIKMVMEQGDW
LIGGDLQVLD R V Y W N D G L D Q Y R L T P T E L K Q K F K D M N A D A V F A F Q L R N P V H N G H A L L M Q D T H K Q L L E R G Y R R E V L L
LHPLGGWTKDDD V P L M W R M K Q H A A V L E E G V L N P E T T V V A I F P S P M M Y A G P T E V Q W H C R A R M V A G A N F Y I V G R D P A
GMPHPETGKDLYEP SHGAKVLTMAPGLITL E I V P F R V A A Y N K K K K R M D Y Y D S E H H E D F E F I S G T R M R K L A R E G Q K
PPEGFMAPKAWTVLTEYYKSLEKA

1535/2825
FIGURE 1366A

AGAGATGGGTCTCGCCATCACCATGTTGCCAGTCTGGTCTCCAACCTCTGGGCTCAAGCGATCCTCCTGCCTTG
GTCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCCCACACCCGGCTGAGTGAGTGGGTTCTGAATGGTGACTG
TTGTTGTCCATAGCCTTCCCCCTGCTTCTGAGAGTGGAGTCCCTCCCCCTCATGTTGGAGACCTCCCAAGGTCCAT
GTGGTCTATAGGGGCTGTTACAGCTCCCTAGCCCCCTTAACGTGTCAGGTAATACTGTATATATTCCATGAAATG
TGAATAATTAGTTATATAATTCCCTAAGCACTTATTTTAAAAAACAGCAATGTGATGCTTAACTCTTCCACCTCT
GTTCTGTGCCCCCTTAGAAAACCACTGATAACTCTTTTTTTTTTTTGGAGACGGAGTCTTGCCCTGTGCCCCAGGCT
GGAGTGTAGTGGCTGATCTCGGCTCGGCTCATTGTAACCTCCGCCTCGGGTTTGAGCGATTCTCCTGCCTCAGC
CTCCTGAGTAGCTGGGATTATAGGCGTGCACCACCACGCCTGGCTAATTTTTTGTATCTTTAGTAGGGACGGGTT
TCACCATGTTGGCCAGAGTGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAGTGCTGGGA
TTACAGGCATGAGCCACCGTGCCTGTCTAGAACCACTGGTAACCTCTTAAGTGTGTTCTAAGAACGGAAG
CATCTGGGCTGGATGGAAATTTAGCATCAAGCAGAGTCCCCTTTCTGTTGAGAGTGTGTAAGTGCATAAAGATG
AAGCAGGCACCGAAATCCTCGGCAGTGCCAACGGGAAGACTCCGAGCTGCGAGGTGAACCGCGAGTGTCTGTG
TTCTCAGCAAAGCCAGCTCTCCAGTAGCCTGCAGGAGGGGGTTCATGCAGAAGTTTAACGGCCACGACGCCCTG
CCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGGTGTTTAATGGAGAACCCGGCGCACACGATGCC
AAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACACCCCTAACACTACCCCTATCAAAAATGGCTCT
CCAGAAATTAAGCTGAAATCACCAAAACATACATGAATGGGAAGCCTCTCTTTGAATCTTCCATTTGTGGTGAC
AGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAACAGAAAACAAGGCGAGAAGGAACAGGAAGAGG
AGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTGGAAGCAGCTCTTGTGTCTAAGATCTCAAGTCTTCA
GATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTGGAAGAGACAAAGACCACCTGTTGAAATACAAC
GTTGGTGATTTGGTGTGGTCCAAAGTGTGCGGTTACCCCTGGTGGCCTTGATGTTTTCTGCAGATCCACTCCTT
CACAGCTATACCAAACCTTAAAGGTGAGAAAAGAGTGCACGCCAGTATCACGTACAGTTCTTTGGTGACGCCCCA
GAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAGGAGAAGGACAGTTTGAAAAATTATGCCAGGAA
AGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTATTGAAACCAATTTAGGGGAAATTGAGGGCCAG
TGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGTGAGTGGAGGAGCGGAAAGCCAAGTTCACCTTT
CTCTAAGTGGGGGACCAGCTTCATCTCAACCCTCAAGTAGCCAAGGAGGCTGGCATTGCTGCAGAGTCTTTGGGA
GAAATGGCAGAACTCTCAGGAGTCAGTGAAGAAGCTGCTGAAAACCCCAAGTCTGTGAGAGAAGAGTGCATTCCC
ATGAAGAGAAGGCGGAGGGCCAAACTGTGTAGCTCTGCAGAGACCCTGGAGAGTCACCCCGACATAGGGAAAGAGT
ACTCCTCAAAAGACGGCAGAGGCTGACCCGAGAAGAGGAGTAGGGTCTCCTCCTGGGAGGAAGAAGACCACAGTC
TCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCCAGTTTTTGGTCTTCTGTCAAAAACACAGGGATGAGGTG
GTAGCTGAGCACCCAGATGCTTCAGGTGAGGAGATTGAAGAGCTGCTCAGGTACAGTGGAGTCTGCTGAGTGAG
AAGCAGAGAGCAGCTACAACACCAAGTTTGCCCTGGTGGCCCTGTCCAGGCTGAAGAAGACTCTGGTAATGTA
AATGGGAAAAAAGAAACCACACAAGAGGATACAGGACCCTACAGAAGATGCTGAAGCTGAGGACACACCCAGG
AAAAGACTCAGGACGACAAAGCACAGTCTTCGGAAGAGAGACACAATCACTGACAAAACGGCCAGAACAAGCTCT
TACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAGCAACGAAAAATCTGTCTGATGCATGTAAACCA
CTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTCTTGGGTTTAGCAAAAGTTCATCTCCTTCTGCA
TCCTTAACTGAGAATGAGGTCTCGGACAGCCCGGAGACGAGCCCTCGGAGTCCCATAACGAAAGTGCAGACGAA
ACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAGGAGTGAAGTGCACAAAAGGAGTATGTGTGCCAG
CTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCCTGCTGCGGAGCTTTCCACCTCGCCTGCCTTGGG
CTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTGCCCTCAGGGATTCACTCATGTTTTCGTGTGTAAA
GAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTGTGGAAAATTTTACCATGAGGCTTGTGTGAAAAAA
TACCCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCCCCTCCACAGCTGTGTGAGCTGCCATGCTTCCAAC
CCTTCAAAACCAAGGCCGTCAAAAGGTAAAATGATGCGGTGTGTCCGCTGCCCCGTTGCCTATCACAGCGGGGAT
GCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCATCATCTGCACTGCCACTTCACTGCTCGGAAG
GGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCGTGTGTCTCAAAGGGGGGAGCCTTCTGTGTGT
GAGTCTGCCCCAGCGCCTTCCACCCTGACTGCCTGAACATCGAGATGCCTGACGGCAGCTGGTTCTGCAATGAC
TGCAGGGCTGGGAAGAAGCTGCACCTCCAGGATATCATTGGGTGAAACTTGGGAACCTACAGATGGTGGCCGGCA
GAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTAGAAAAATGAAGCACGAGATTGGAGAATTCCCTGTGTTT
TTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGGAGTGTCCCGTACATGGAGGGGGACCGGGGCAGC

1536/2825
FIGURE 1366B

CGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACGCACTGCAAGAAGCTGAAGCTCGTTTTTCGTGAA
ATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGCGCAAGCCCCACCATAACAAGCACATCAAGGTG
AATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTTTCAAAAATCCCTAAGTGCAACTGCAAGCCCACA
GATGAGAATCCTTGTGGCTTTGATTTCGGAGTGTCTGAACAGGATGCTGATGTTTTGAGTGCCACCCCGCAGGTGTGT
CCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCCAGTACCCAGAGACCAAGATCATCAAGACAGAT
GGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGGACATCAGAAAGGGAGAATTTGTTAACGAGTACGTTGGGGAGCTG
ATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACACGAGAACGACATCACCCACTTCTACATGCTCACT
ATAGACAAGGACCCTATAATAGACGCTGGCCCCAAAGGAACTACTCTCGATTTATGAATCACAGCTGCCAGCCC
AACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTGTGGGCCTGTTTGCCGTCTGTGACATTCCTGCA
GGGACGGAGCTGACTTTTTAACTACAACCTCGATTGTCTGGGCAATGAAAAACGGTCTGCCGGTGTGGAGCCTCC
AATTGCAGTGGATTTCCTCGGGGATAGACCAAAGACCTCGACGACCCTTTTCATCAGAGGAAAAGGGCAAAAAGACC
AAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGAGGCAGTCAGAGGACGAGTGCTTCCGCTGCGGT
GATGGCGGGCAGCTGGTGTGTGTGACCGCAAGTTCTGCACCAAGGCCTACCACCTGTCTGCTGCGCTGGGCCTTGGC
AAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTGACGTGTGTGGCAAACCTTCGACTTCATTTTGC
CACCTCTGCCCAATTTCGTTCTGTAAAGGAGCACCAGGACGGGACAGCCTTCAGCTGCACCCCGGACGGGCGGTCC
TACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCACCAGACTGAGAAGCCCCCCCCAGAGCCAGGG
AAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAGAGTCACAGAGGGCAAAATAGCGCCAGGCGGCCGCT
TGGCCGGATCCAGGGGCGGTGCAGGGCGGCCGCGCCCTGCCTGCGGGAGAGGGCGAGCATGAACTGGCCCGGAGGA
CCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGGGAGGGAGCGCCTCCCCACCACTGAGCCATCCT
CAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCAGCTCAGCGTTCTTGACAAAACAGCCTCACTCC
TCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTTCCCTCCCCTCTATTTTTTTAGGTTAAAGTTA
ATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCGTAGGCTTTTCCCAAGGGTCGCTAGAAAACGCT
CTTCGCGTTGCCCCCTTTCTGGCTCTCAGCGCCGTCGCCACTCGGGAGAGGCTGGGTGAGGCCCGTGTGAGGACT
GACCCTGGATTCTTCGAAACTGCCATTGTGATCATTACTCTGCTCTTTGGTGGCTGTATCATTTTTTTGTACTAA
TGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTAGTGAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGT
GTTGTAAGATTTCTCCCGTAGTTTTTTCTCCTCATGGATTGAATGAAATGCCAATAACACGTCCACTTTCAAC
GTGTAGTTTACGCGGAGCACTTTTCAGGGCCTGGCCGGGTGGGCCTACTTCTCACCTGGGCCTATCTTCTGAACT
CGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATATTTTTTTTCAATTTGGCTTTTCTTTTACCAGTTTCTGA
TTTTTATTCTCAATATATTTTTTGCTAAACCTATTTTCAAAATCACCACCGACTGAAGTGTGTGTTTACTGATGCG
GCCCTGAGCTCCATGGCGAAAGGAGTGACTTTTCAGGGCGTGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGAC
AACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGACCCAGCACGTGGGTCTAAAGAGAGACGGAGTCTAG
CTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTGTGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGAT
CACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGGTCTTGGGGTGGAGGCCTGCCTGGCAGGTGTGCGT
GCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTATGACACCCACTCTCCTGTGAGATTTCACTTTAGTT
TTTAAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCTGAGTACTACATATGTTTTAAGACTTGGTTCTTTTT
TTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGAGAAGGGGGCACCATGTGTGCCTTTGCCACGTGTC
CTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACATTCAGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAAA
TAACCTAAGGGGGACACATCCATCTTGCAGAGAAGTTTACAGAACTCCCCTTGAAAACCTGCTGCTGAGGCTCCTG
TTAAATTTTCTGTGGCATCTTTTATGCCTTGGTAAAACTGCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTG
GTTTTGTGACCTGTAAGCGTGGGGTTTCAAGGGTGTGTGGCCCTGCAGGGTCCCACGCCTCCTGAGCACTGACTG
GAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGGGTCCCCAGCAAAGTTAACTACACAGAGGACCCAGG
GGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGCCGCTGGCCCTGAGGGGCACTCGCCGGTTAAGACAGGG
TGGGAGTAGTGCTTTCAGTTTCAGACTCTAACTTCTCCCAAAGTGTCCTAAGAAAATACTGGATCGGCTCATAGA
TTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTTCTAGGGACAGGCCGGGCAGTGTCCCCACACACACCTT
AGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCCAAAAGATCCCTTCCGGCAGGTAAGGGACTACCAATGCT
TACGTCAAAAACAGCAGAATCGGCTTTGCAGTGCATTTGGGGAGCAGATATTAACCTATTTTTTGTGTTGGACAGT
AGTGAAATCTTGTGATTTTTTAATCGCTTTGATAATACTTCCAAATTTTATGATTTTTTCTGAAGGAAATAATGCAA
ACATTTTAAATATGTTTCTCCCCCTTTCCAAAACCTGTTAACTAATGAGCAAGTAACACTAACTTTGAATGTCT

1537/2825
FIGURE 1366C

CTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGGGGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCAC
TGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTGGCTGGCTCTCGGCCCTGCCAGCTTTGTTCTGAGGAC
GTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCATTAATGTGAAGCAAAACACAAAAACCGCCCCAATCCC
TCAGGATTCCCTTGGCATCCGAAACCAGCATCTGCACCTAAACCCATACCCACCCGTTGTGCGCCACAGGGGGATG
TGTCCGAATGGGCAGCTTAAAATGTGGTCACCTGTGGGGGAAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTG
TCCGTCCCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCCATGGCTGGCTGGGTCCCCTTCGCAGTGTGTTGTCTG
TCTTGACATCTAAACCCCGGCGTGTGCAGTGCCCATCTTCCAGGACTACCTTATTTTCCAGAATTAAACCTGTTT
TATAATTCAAGTTAATGCAAATGACTGTGAGTTGCCAAATATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTG
TLAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTGACAGCCTCACCATACCCTGTTGAGGTGTGAAATGCC
CGTCAGAAATTAAATACAACTTAAATGTGCCTATTGGTGTCTAAACTTCATACAATGTAAGGTCAGATTCCCTT
TAGGAATACTGGGTGCTGTGACCAGGTTTGATAGTTAGACTTAAAACTTGAAATTCACTTTTTGGGGGGAGGGA
TATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAAAATAGCATTTAAATGAAAGCTGTGTTTGAAAA
TTGTGTATGAGTATTTTTGTATTAAAAACATTTTAA

1538/2825
FIGURE 1367

MEFSIKQSPLSVQSVVKCIKMQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFI
ADKLDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGD
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEEKIKLLKPI SGKLRAQWEMGIVQAEEAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTIVSMFR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEOTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRATAASSALGFSSSSPSASLTENEVS DSPGDEPSES PYESADETQTEVSVSSKKSERGVTAKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVCKESKTDVKRCVVTQCGKFYHEACVKKYPLT
VFESRGFRCLHSCVCHASNPSPRPSKGKMMRCVRCPVAYHSGDACLAAGCSVIASNSI ICTAHFTARKGKRH
HAHVNVSWCFVCSKGGSLCCESC PAAFHPDCLNIEMPDGSWFCNDCRAGKKLHFQDI IWVKLGNYRWWPAEVCH
PKNVPPNIQKMKHEIGFPPVFFFGSKDYYWTHQARVPYMEGDRGSRYQGVRGIGRVFKNALQEAEARFREIKLQ
REARETQESERKPPPYKHIKVNKPYGKVQIYTADISEIPKCNCKPTDENPCGFDSECLNRMLMFECHPQVCPAGE
FCQNCQFTKRQYPETKIIKTDGKGWGLVAKRDIRKGEFVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKD
RIIDAGPKGNYSRFMNHSCQPNCE TLKWTVNGDTRVGLFAVCDIPAGTELT FNYNLDCLGNEKTVCRGASNC SG
FLGDRPKTSTTLSSEEKGKTKKKTRRRRAKGEGRQSEDECFRCGDGGQLVLC DRKFCTKAYHLSCLGLGKRPF
GKWECPWHHCDVCGKPSTSFCHLCPNSFCKEHQDGTAFSCTPDGRSYCCEHDLGAASVRSTKTEKPPPEPGKPKG
KRRRRRGWRRVTEGK

1539/2825
FIGURE 1368

GGTCGTTTCGTTGGGCGGTGCTGGTTTTTCGCTCGTCGACTGCGGCTCTTCCTCGGGCAGCGGAAGCGGCGCGGCG
GTCGGAGAAGTGGCCTAAACTTCGGCGTTGGGTGAAAGAAAATGCCCCGAACCAAGCAGACTGCTCGTAAGTCC
ACCGGTGGGAAAAGCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGCGGGGTG
AAGAAGCCTCATCGCTACAGGCCCGGGACCGTGGCGCTTCGAGAGATTTCGTCGTTATCAGAAGTCGACCGAGCTG
CTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCAGGATTTCAAACCGACCTGAGGTTTTAG
AGCGCAGCCATCGGTGCGCTGCAGGAGGCTAGCGAAGCGTACCTGGTGGGTCTGTTTCGAAGATACCAACCTGTGT
GCCATCCACGCTAAGAGAGTCAACCATCATGCCCAAAGACATCCAGTTGGCTCGCCGGATACGGGGAGAGAGAGCT
TAAGTGAAGGCAGTTTTTTATGGCGTTTTTGTAGTAAATTCTGTAAAATACTTTGGTTTTAATTTGTGACTTTTTTTG
TAAGAAATTGTTTATAATATGTTGCATTTGTACTTAAGTCATTCCATCTTTCCTCAGGATGAATGCGAAAAGTG
ACTGTTACAGACCTCAGTGATGTGAGCACTGTTGCTCAGGAGTGACAAGTTGCTAATATGCAGAAGGGATGGGT
GATACTTCTTGCTTCTCATGATGCATGTTTCTGTATGTTAATGACTTGTTGGGTAGCTATTAAGGTACTAGAGTT
GATAAATGTGTACAGGGTCCTTTTGCAATAAAACTGGTTATGACTTGATCCAAGTGTTTAACAATTGGGGCTGTT
AAGTCTGACCATACTACTGTGATAGAATGTGGGCTTTTTCAAGGGTGAAGATACAAGTCTTAACCACAGTGTA
ACTTACAGTTTCCTTTAAAAAAGTAAACCTGGCAGCTATAGAATACACTATGTGCATTTATAATAGCT
ATTTTATATATTGTAGTATCAACATTTTTAAATTAATGTTTTACATTCACAAGTGGTGGGGAGTCTTGTCATTA
AGGTGTGTGTAATTTAGAGTCCAGTTGGTTTTCTTCTGACTGCACCTGTTCTCATAGTAGTAAAATGCTATGCGC
ATTTATACCTTGCATAAGTCCTCATTCTACCACATGTTAACCCTCTAGCTGATAATGCAAACACTAACTGGGGGA
TTTTATTTATAAGGGCTCTAGAAAAACGAGTTATTCACACCAGCATCATCTTAACCTAACATTCTGAACTAGTTA
GTGCAGCTTTTCATTGTGTTGTGTGGTTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGCTGAGGAAACAGTA
CCGAAGTTCTTTTTCTTGTTGGCATTGTATTATAAAAACTTGGTGTGGGGAGGAGCACAAAACCTCCAGCCCACT
GAACCTCTGCCAATTAAGATGGTGTGGGTAGGTTACATCTGGTTACTGTCTGGGAAAATCATTTTTATAGAG
ATGGCCTTCCAAGTGGTTTTAAATTTACTGAAGTTTTTAGGTCAATTATGTATGTTGACTAAATTTACAAATAA
ACTTGTATATCC

1540/2825
FIGURE 1369

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLFPQRLVREI
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

1541/2825
FIGURE 1370

GAGC**ATG**GAGGCGGGGCGGCTGAGGCAGCTGTAGCGGCCGTGGAGGAGGTCGGCTCAGCCGGGCAGTTTGAGGA
GCTGCTGCGCCTCAAAGCCAAGTCCCTCCTTGTGGTCCATTCTGGGCACCATGGGCTCCACAGTGTGCACAGAT
GAACGAAGTTATGGCAGAGTTAGCTAAAGAACTCCCTCAAGTTTCATTTGTGAAGTTGGAAGCTGAAGGTGTTC
TGAAGTATCTGAAAAATATGAAATTAGCTCTGTTCCCACTTTTCTGTTTTTCAAGAATTCTCAGAAAAATCGACCG
ATTAGATGGTGCACATGCCCCAGAGTTGACCAAAAAAGTTTCAGCGACATGCATCTAGTGGCTCCTTCCACCCAG
CGCTAATGAACATCTTAAAGAAGATCTCAACCTTCGCTTGAAGAAATTGACTCATGCTGCCCCCTGCATGCTGTT
TATGAAAGGAACTCCTCAAGAACCACGCTGTGGTTTCAGCAAGCAGATGGTGGAAATTCTTCACAAACATAATAT
TCAGTTTAGCAGTTTTTGATATCTTCTCAGATGAAGAGGTTTCGACAGGGACTCAAAGCCTATTCCAGTTGGCCTAC
CTATCCTCAGCTCTATGTTTCTGGAGAGCTCATAGGAGGACTTGATATAATTAAGGAGCTAGAAGCATCTGAAGA
ACTAGATACAATTTGTCCCAAAGCTCCCAAATTAGAGGAAAGGCTCAAAGTGCTGACAAATAAAGCTTCTGTGAT
GCTCTTTATGAAAGGAAACAAACAGGAAGCAAAATGTGGATTAGCAAAACAAATTCTGGAAATACTAAATAGTAC
TGGTGTGGAATATGAAACATTCGATATATTGGAGGATGAAGAAGTTCGGCAAGGATTAAAAGCTTACTCAAATTG
GCCAACATACCCTCAGCTGTATGTGAAAGGGGAGCTGGTGGGAGGATTGGATATTGTGAAGGAACTGAAAGAAAA
TGGTGAATTGCTGCCTATACTGAGAGGAGAAAAAT**TAA**TAAATCTTAAACTTGGTGCCCACTATTACGGGGTCTG
GCTCTGTCACCCAGGCTGGAGTGCAGTGGCACGATTATGGCTCATTGCAGCCTCGACTTCTCGGGGCCAAGCGAT
CCTCCTGCCTCAGCCTTCTGAGTAGCTGGGACCACAGGCGTGCACCACCATGCCCACCTAATTTTTTATTTCTTG
TAGAGATGAGGTCTCCTGCCTCAGCCTCCCAAAGTGCTGGAATTTACAGGAGTGTGGCTGTGCCCCTTGTGATG
GATGAGGAAAGGTATCCACCTTTCTGAATCAGACACAAGCTGCAGTAGCTTCCTGATGCCTCATTACCAGGATG
GGTAACTTTAAAGACAAGTTTTATAACTGGCATCCCATCTGGTTTTCAGAGTCTTGGGGGCTTTTTTCATACAGCT
TTGTCTGATATTTAGAGACATTCAGATTAGAAAGCCATGAGTTAGTTAGCTCATGGGCCGGGCACGTGCACTGA
CTCACTGGCTGCAGCAGAACACATTGAGGGAGTCTTGGTGCACCTAGGTCACTGTAAGGTTCTAGGGCTGGGAGC
TGGGATTTGAACCAGGATCTGTCAGCGCAGCCCCAGTGCTGTGCTTGAAGCCTCGTGCCACACTGGCTTTGAGGT
AGCACGCTGCAAGTTAGTGAGTGGAGTTGCCCAAGTCTGGGGCTTCTGAAATGACCTGGTATTTTTATGTTCTG
TTAGAAATGGTGTGGCTTTTCAAAATTAAGTGCCAGGCTGGGCACAATGGCTCGTGCTTGTAATCCCAGCACTTT
GGGAGGCGGAGGCAGGCGGGTTGCTTGAGCTCCGGAGCTTGAGACCAGCCTGAGCAACATGGCGAAACCTCATAT
CTACAAAAAATAAAAAATTAAGTGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1542/2825
FIGURE 1371

MEAGAAEAAVA AVEEVGSAGQFEELLRLKAKSLLVHFWAPWAPQCAQMNEVMAELAKELPQVSFVKLEAEGVPE
VSEKYEISSVPTFLFFKNSQKIDRLDGAHAPELTKKVQRHASSGSFLPSANEHLKEDLNLRLKKLTHAAPCMLFM
KGTPQEPRCGFSKQMV EILHKNIQFSSFDIFSDEEVRQGLKAYSSWPTYPQLYVSGELIGGLDIKELEASEEL
DTICPKAPKLEERLKVLTNKASVMLFMKGNKQEA KCGFSKQILEILNSTGVEYETFDILEDEEVRQGLKAYS NWP
TYPQLYVKGELVGGLDIVKELKENGELLPILRGEN

1543/2825
FIGURE 1372

TCAGCGGGCGAGTCCCCGGCTCCTCCAGCTCCTTCCTCCTCTTCCTCCTCCTCCTCCACCTCCGGCTTTTGGGGG
ATCACTGTCCTCTCTCGGCAGCAGAAATCAGCCGGCAGGTGGTCCGCTCCAGCAAGTTCCGCCACGTGTTTGGACA
GCCGGCCAAGGCCGACCAGTGCTATGAAGATGTGCGCGTCTCACAGACCACCTGGGACAGTGGCTTCTGTGCTGT
CAACCCTAAGTTTGTGGCCCTGATCTGTGAGGCCAGCGGGGAGGGGCCTTCCTGGTGCTGCCCCCTGGGCAAGAC
TGGACGTGTGGACAAGAATGCGCCACGGTCTGTGGCCACACAGCCCCCTGTGCTAGACATCGCCTGGTGCCCGCA
CAATGACAACGTCATTGCCAGTGGCTCCGAGGACTGCACAGTCATGGTGTGGGAGATCCCGGATGGGGGCCTGAT
GCTGCCCCCTGCGGGAGCCCGTTCGTACCCCTGGAGGGGCCACACCAAGCGTGTGGGCATTGTGGCCTGGCACACCAC
AGCCCAAGACGTGCTGCTCAGTGCAGGTTGTGACAACGTGATCATGGTGTGGGACGTGGGCCTGGGGCGGCCAT
GCTGACACTGGGCCCAGAGGTGCACCCAGACACGATCTACAGTGTGGACTGGAGCCGAGATGGAGGCCTCATTG
TACCTCCTGCCGTGACAAGCGCGTGCGCATCATCGAGCCCCGAAAGGCACTGTCGTAGCTGAGAAGGACCGTCC
CCACGAGGGGACCCGGCCCGTGCCTGTCAGTGTTCGTGTGCGAGGGGAAGATCCTGACCACGGGCTTCAGCCGCAT
GAGTGAGCGGCAGGTGGCGCTGTGGGACACAAAGCACCTGGAGGAGCCGCTGTCCCTGCAGGAGCTGGACACCAG
CAGCGGTGTCCTGCTGCCCTTCTTTGACCCTGACACCAACATCGTCTACCTCTGTGGCAAGGGTGACAGCTCAAT
CCGGTACTTTGAGATCACTTCCGAGGCCCCCTTTCCTGCACTATCTCTCCATGTTCAAGTTCCAAGGAGTCCCAGCG
GGGCATGGGCTACATGCCCAAACGTGGCCTGGAGGTGAACAAGTGTGAGATCGCCAGGTTCTACAAGCTGCACGA
GCGGAGGTGTGAGCCATTGCCATGACAGTGCCTCGAAAGTCGGACCTGTTCCAGGAGGACCTGTACCCACCCAC
CGCAGGGCCCCGACCCTGCCCTCACGGCTGAGGAGTGGCTGGGGGGTTCGGGATGCTGGGCCCCCTCCTCATCTCCCT
CAAGGATGGCTACGTACCCCCAAAGAGCCGGGAGCTGAGGGTCAACCGGGCCTGGACACCGGGCGCAGGAGGGC
AGCACCAGAGGCCAGTGGCACTCCCAGCTCGGATGCCGTGTCTCGGCTGGAGGAGGAGATGCGGAAGCTCCAGGC
CACGGTGCAGGAGCTCCAGAAGCGCTTGGACAGGCTGGAGGAGACAGTCCAGGCCAAGTAGAGCCCCGCAGGGCC
TCCAGCAGGGTCAGCCATTACACCCATCCACTCACCTCCCATTCCCAGCCACATGGCAGAGAAAAAATCATAA
TAAAATGGCTTTATTTTCTGTTAAAAAAGG

1544/2825
FIGURE 1373

MSRQVVRSSKFRHVFQGPAKADQCYEDVRVSQTTWDSGFCVNPKEFVALICEASGGGAFLVLPLGKTGRVDKNAP
TVCGHTAPVLDIAWCPHNDNVIASGSEDCVTMVWEIPDGGMLPLREPVTLEGHTKRVGIVAWHTTAQNVLLSA
GCDNVIMVWDVGTGAAMLTLGPEVHPDTIYSVDWSRDGGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVR
AVFVSEGKILTTGFSRMSERQVALWDTKHLEEPSLQELDTSSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSE
APFLHYLSMFSSKESQRGMGYMPKRGLEVNKCEIARFYKLHERRCEPIAMTVPRKSDLFQEDLYPPTAGPDPALT
AEEWLGGRDAGPLLISLKDGYVPPKSRELRVNRGLDTGRRRAAPEASGTPSSDAVSRLEEEMRKLQATVQELQKR
LDRLEETVQAK

1545/2825
FIGURE 1374

GCTAACCTAGTGCCTATAGCTAAGGCAGGTACCTGCATCCTTGTTTTGTTTAGTGGATCCTCTATCCTTCAGAG
ACTCTGGAACCCCTGTGGTCTTCTCTTCATCTAATGACCCTGAGGGGATGGAGTTTTCAAGTCCTTCCAGAGAGG
AATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGCCTCACAGGTTTGCTTCTACTTCAGGCAGTGT
CGTGGGCATCAGGTGCCCCGCCCTGCATCCCTAAAAGCTTCGGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCA
CATACTGTGACTCCTTTGACCCCCCGACCTTTCTGCCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTG
GGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCACAGGCCTGCTACTGACCCTGCAGC
CAGAACAGAAGTTCCAGAAAGTGAAGGGATTTGGAGGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCC
TGTCACCCCTGCCCAAATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGG
TACCCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACA
ACTTCAGCCTCCAGAGGAAGATAACCAAGCTCAAGATACCCCTGATTACCGAGCCCTGCAGTTGGCCAGCGTC
CCGTTTCACTCCTTGCCAGCCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGGT
CACTCAAGGGACAGCCCGGAGACATCTACCACCAGACCTGGGCCAGATACTTTGTGAAGTTCTGGATGCCTATG
CTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATAACCCCT
TCCAGTGCCTGGGCTTCACCCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCTACCCCTGCCAACA
GTACTCACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTAC
TGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCA
AAGCCACCCTAGGGGAGACACACCGCCTGTTCCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGCTCCA
AGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACGAACC
TCCTGTACCATGTGGTTCGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGAAGGAGGACCCAATTGGGTGCGTA
ACTTTGTGACAGTCCCATCATTGTAGACATCACCAAGGACACGTTTTTACAAACAGCCCATGTTCTACCACCTTG
GCCACTTCAGCAAGTTTATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACG
CAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTTCGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTA
CCATCAAGGATCCTGCTGTGGGCTTCTGAGAGACAATCTCACCTGGCTACTCCATTACACCTACCTGTGGCATC
GCCAGTGAATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACG
CTGTCTGTGACTAAAGAGGGGCACAGCAGGGCCAGTGTGAGCTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGG
GTGACTCACTTTCCCCTCTAGGTGGTGCCAGGGCTGGAGGGCCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCC
CCCAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGCTTTGGAACTXGCCTGGGTCCAGGCCTAGGG
TGAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAGCTGGGCCCA
AAACTGGAGACTGTTTGTCTTTCTAGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTGAGCATCAGGGCGGA
AGCCTTAAAGCAGCAGCGGGTGTGCCAGGCACCCAGATGATTCCTATGGCACCAGCCAGGAAAAATGGCAGCTC
TTAAAGGAGAAAAATGTTTGAGCCCA

1546/2825

FIGURE 1375

MEFSSPSREECPKPLSRVSIMAGSLTGLLLLQAVSWASGARPCIPKSFGYSSVVCVCNATYCDSDPPTFFPALGT
FSRYESTRSGRRMELSMGPIQANHTGTGLLLTLOPEQKFQKVKGFGGAMTDAAALNILALSPPAQNLLLKSYFSE
EGIGYNIIRVPMASCDFSIRTYTYADTPDDFQLHNFSLPPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTWLK
TNGAVNGKGSLSKGQPGDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQRDFIA
RDLGPTLANSTHHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGI AVHWYLD FLAPAKATLGETHRLFPNTML
FASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNLALNPEGGPWVRNFVDSP I IVDITKDTF
YKQPMFYHLGHFSKF IPEGSQRVGLVASQKNDLDAVALMHPDGS AVVVVLNRSSKDVPLTIKDP AVGFLETISP
YSIHTYLWHRQ

1547/2825
FIGURE 1376

GCGCAGGGAGGGGAGACCTTGGCGGACGGCGGAGCCCCAGCGGAGGTGAAAGTATTGGCGGAAAGGAAAAATACAG
CGGAAAAATGCAGAGCTGGAGTCGTGTGTACTGCTCCTTGGCCAAGAGAGGCCATTTCAATCGAATATCTCATGG
CCTACAGGGACTTTCTGCAGTGCCTCTGAGAACTTACGCAGATCAGCCGATTGATGCTGATGTAACAGTTATAGG
TTCTGGTCCTGGAGGATATGTTGCTGCTATTAAAGCTGCCCAGTTAGGCTTCAAGACAGTCTGCATTGAGAAAAA
TGAAACACTTGGTGGAACATGCTTGAATGTTGGTTGTATTCTTCTAAGGCTTTATTGAACAACCTCTCATTATTA
CCATATGGCCCATGGAACAGATTTTGCATCTAGAGGAATTGAAATGTCCGAAGTTTCGCTTGAATTTAGACAAGAT
GATGGAGCAGAAGAGTACTGCAGTAAAAGCTTTAACAGGTGGAATTGCCCACTTATTCAAACAGAATAAGGTTGT
TCATGTCAATGGATATGGAAAGATAACTGGCAAAAAATCAAGTCACCTGCTACGAAAGCTGATGGCGGCCTCAGGT
TATTGATACAAAGAACATTCTTATAGCCACGGGTTTCAAGAATTACTCCTTTTCTGGAATCACGATAGATGAAGA
TACAATAGTGTCTATCTACAGGTGCTTTATCTTTAAAAAAGTTCCAGAAAAGATGGTTGTTATTGGTGCAGGAGT
AATAGGTGTAGAATTGGGTTTCAAGTTTGGCAAAGACTTGGTGCAGATGTGACAGCAGTTGAATTTTTAGGTCATGT
AGGTGGAGTTGGAATTGATATGGAGATATCTAAAACTTTCAACGCATCCTTCAAAAACAGGGGTTTAAATTTAA
ATTGAATACAAAGGTTACTGGTGCTACCAAGAAGTCAGATGGAAAAATTGATGTTTCTATTGAAGCTGCTTCTGG
TGGTAAAGCTGAAGTTATCACTTGTGATGTACTCTTGGTTTGCATTGGCCGACGACCCTTTACTAAGAATTTGGG
ACTAGAAGAGCTGGGAATTGAACTAGATCCTAGAGGTAGAATTCCAGTCAATACCAGATTTCAAACATAAAATTC
AAATATCTATGCCATTGGTGATGTAGTTGCTGGTCCAATGCTGGCTCACAAGCAGAGGATGAAGGCATTATCTG
TGTTGAAGGAATGGCTGGTGGTGCTGTGCACATTGACTACAATTGTGTGCCATCAGTGATTTACACACACCCTGA
AGTTGCTTGGGTTGGCAAATCAGAAGAGCAGTTGAAAGAAGAGGGTATTGAGTACAAAGTTGGGAAATTTCCATT
TGCTGCTAACAGCAGAGCTAAGACAAATGCTGACACAGATGGCATGGTGAAGATCCTTGGGCAGAAATCGACAGA
CAGAGTACTGGGAGCACATATTCTTGGACCAGGTGCTGGAGAAATGGTAAATGAAGCTGCTCTTGCTTTGGAATA
TGGAGCATCCTGTGAAGATATAGCTAGAGTCTGTATGCACATCCGACCTTATCAGAAGCTTTTAGAGAAGCAAA
TCTTGCTGCGTCATTTGGCAAATCAATCAACTTTTGAAATTAGAAGATTATATATTTTTTTTTTCTGAAATTTCTG
GGAGCTTTTGTAGAAGTCACATTCCTGAACAGGATATTCTCACAGCTCCAAGAATTTCTAGGACTGAATTATGAA
ACTTTTGGAAAGGTATTTAATAGGTTTGGACAAAATGGAATACTCTTATATCTATATTTTACATAAAATTTAGTATT
TTGTTTCAGTGCACATAATATGTAAGACAAAAAGGACTACTTATTGTAGTCATCCTGGAATATCTCCGTCAACTCA
TATTTTTCATGCTGTTTCATGAAAGATTCAATGCCCTGAATTTAAATAGCTCTTTTCTCTGATACAGAAAAGTTGA
ATTTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTTGAAGCACAGTGATCAAGTTATTTTAAAT
TTGGTTTTTACATTGGAACAAGTCAGTCATTGAGATATGATTCAAATGTCTATAAACCAAACTGATGTAAGTAA
ATGGTCTCTCACTTGTTTTTATTTAACCTCTAAATTCCTTTTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAA
AAGCTTCCATTGTTGTCTGCAACTCTGAAGGGTAATTATATAGTTACCCAAATTAAGAGAGTCTATTTACGGAAC
TCAAATACGTGGGCATTCAAATGTATTACAGTGGGGAATGAAGATACTGAAATAAACGTCTTAAATATTC

1548/2825
FIGURE 1377

MQSWSRVYCSLAKRGHFNRISHGLOGLSAVPLRTYADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCKIEKNET
LGGTCLNVGCIPSKALLNNSHYHMAHGTDFA SRGIEMSEVRLNLDKMMEQKSTAVKALTGGIAHLFKQNKVVHV
NGYGKITGKNQVTATKADGGTQVIDTKNILIATGSEVTPFPGITIDEDTIVSSTGALS LKKVPEKMVVIGAGVIG
VELGSVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRI LQKQGFKFKLNTKVTGATKSDGKIDV SIEAASGGK
AEVITCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQTKIPNIYAIGDVVAGPMLAHKA EDEGIICVE
GMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRV
LGAHILGPGAGEMVNEAALALEYGASCEDIARVCHAHPTLSEAFREANLAASFGKSINF

1549/2825

FIGURE 1378

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG
TATGACCTCATGTCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC
GTAGAAAATGCACTCACCAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAAGCTAGAAAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAAATTCAG
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCGCAACCTGACTCAGCAGCTCCAGACCACGTGC
CACACCCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTTCCGCAATGCTGCCTCCTTTAAAGAAGTGTCTGACAGCCTCCTCACTTCTAGCAAG
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAAACAACACGCCCCCTCAACTGG
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC
AGCCAGGAGACCCAGCGATCTGAGCATAAACTCATTAA

1550/2825
FIGURE 1379

MASVAVDPQPSVVTRVVNLPLVSSTYDLMSSAYLSTKDQYPYLKSVCEMAENGVKTTITSVAMTSALPIIQKLEPQ
IAVANTYACKGLDRIEERLPILNQ PSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST
KLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES
HCAEQFESRTLAIARNLTQQLQTTCHTLLSNIQGV PQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLTSSK
GQLQKMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH

1551/2825
FIGURE 1380

GGCACGAGGGGGAGCCGGGCTGGCAGGAGCAGGATGCGGGCGGCGGGCGGCTGCAGGCGAGGCGCGCCGGGTGCTG
GTGTACGGCGGCAGGGGCGCTCTGGGTTCGATGCGTGCAGGCTTTTCGGGCCCCGCAACTGGTGGGTGGCCAGC
GTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAGGCT
GACCAGGTGACTGCTGAGGTTGGAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGAGGA
TGGGCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGGACA
TCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTGACCTTGGCTGGCGCAAAGGCT
GCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGCCTG
GCTGGGAAGAACAGCGGCATGCCGCCCCGGGGCAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATACCCCGATG
AACAGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAACTTTCCATGAC
TGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACCACAGAAGGAAGGACGGAACCTC
ACCCAGCATATTTTTTAGGCCTCATCTCAGTGCCTATGAGGGGCCTGCCAGAAAAGTCACTAACCTGTCTCAGTG
TGGCCTTGTCAGCCTTGTTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTATTTTTCTCTCACA
TAATATGCATTTGCTCTCCTAGGACAGTGTAATACATTTATGTGAAGTAAAGACATGCGAGACTGGTGGCCTGCA
AATAGCATCCGTCAATCTGTGTAACTGCATAGGGAGGGCTCTGCATAGCACCTGCTATAGCGGTGTCATGTTGG
ATCGCTTTTGTGACTGTTTCATCTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATTGTTGGTATTGG
GGACATTTTAAAGGCTGAGTTATTTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAATTAA
ACTGCCTTAACTCCTTTTGTGGTATAAGCAAACTCCATGGACTCTGTCCTGGTATCCTTTTCCTGTGTGGTTGC
CCTGTGTCCTCTGGCCTAGGGTTAAGTGTGCAAGATAACTACTCGTGAGTATTCAGAATGTTGTTCCCTAATAAAT
GCACCTGTTGCTGTCTTCTTTAAAAAAAAAAAAAAAAAAAAAAAAA

1552/2825
FIGURE 1381

MAAAAAAGEARRVLVYGGRGALGSRVQAFRARNWWVASVDVVENEEASASIIVKMTDSFTEQADQVTAEVGKLL
GEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQSIWTSTISSHLATKHLKEGGLLTLAGAKAALDGTGPMIGY
GMAKGAVHQLCQSLAGKNSGMPPGAAAIAVLPTLDTPMNRKSMPEADFSSWTPLEFLVETFDWITGKNRPSSG
SLIQVVTTEGRTELTPAYF

1553/2825
FIGURE 1382

CGCCCGGGCAGGTCCCAAAATTAGGGGGGAAGAGGAAAAAAAAAGCCAGAAAAAGTTTTCTTTCTGGAGTCCC
AAACGAGGTGCGGGACGGAAGAGGGGGTGAAGGCCAGAGGCTCGGGGCTTCAAGACCGCTGTCTGGAGTCCCCCT
TTCCAGGCC**ATG**TCGGGGCCACCTGGCTGCCCCGAAGCAGCCGGAGCCCGCCAGAGCCCCCTCAGGGGAGGGCG
ATCCCCCGCGGCACCCCGGGGCCACCAACGGCCACGGAGCAGCACTCCAGCCCCACCCACAGGGTCAATTTTTGC
CCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGGGCCGGCGTGGGTGGGGTCCCAT
GGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACAGGGGGGGCCTTCGCCCTGGAAGCCTGGACGCCGAGATA
GACTTGCTGAGCACCACGCTGGCCAAACTGAATGGGGTTCGGGGTTCATGCGTCACGGCGACCAGACCGACAGGCA
TATGAGCCCCCGCCACCTCCTGCCTACCGCACGGGCTCCCTGAAGCCAAATCCAGCCTCGCCGCTCCCAGCGTCT
CCCTATGGGGGCCCACTCCAGCCTCTTACACTACCGCCAGCACCCCGGCTGGCCCAGCCTTCCCCGTGCAAGTG
AAGGTGGCACAGCCAGTGAGGGGCTGCGGGCCACCCAGGCGGGGAGCCTCTCAGGCTTCTGGGCCCCCTCCCGGGC
CCCCACTTTCTCTCCCAGGCCGAGGTGAAGTCTGGGGGCCTGGCTATAGGAGCCAGAGAGAGCCAGGGCCAGGG
GCCAAAGAGGAAGCTGCTGGGGTCTCTGGCCCTGCAGGAAGAGGAAGAGGAGGCGAGCACGGGCCCCAGGTGCCC
CTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGACGAAGAAGCTGGTTACGACATGAACCACCCGCCCAGC
GGGGAGTACTTTGGCCAGTGTTGGTGGCTGCGGAGAAGATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCTTGAT
CGCGTCTTTACGTGGGCTGCTTTGTATGTTCTACATGCCGGGCCAGCTTCGCGGCCAGCATTTCTACGCCGTG
GAGAGGAGGGCATATTGCGAGGGCTGCTACGTGGCCACCCTGGAGAAATGTGCCACGTGCTCCCAGCCCATCCTG
GACCGGATCCTGCGGGCTATGGGGAAGGCCTACCACCCTGGCTGCTTACCTGCGTGGTGTGTCACCGCGGCCTC
GACGGCATCCCCTTACAGTGGATGCTACGAGCCAGATCCACTGTATTGAGGACTTTACAGGAAGTTTGCCCCA
AGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGCCAGGTCAGGAGGAGACTGTGAGAATTGTTGCTCTGGAT
CGAAGTTTTACATTGGCTGTTACAAGTGCGAGGAGTGTGGGCTGCTGCTCTCCTCTGAGGGCGAGTGTGAGGGC
TGCTACCCGCTGGATGGGCACATCTTGTCGAAGGCCTGCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTC
ACCACTGACTGCT**TGA**GTCTTCTAGAAGTACCTGCTGGGTTCTCAGTTCCAGTTCCCATCCTTTGATTGATCACT
CTCCCTGACATCCACCTGTATGACTTTGTACCAAATGCTGTCTTCTCTTTCTCCAATCAAGAAATAATAATCCC
TCGAGTTTACAAAAAAAAAAAAAAAAAAAAA

1554/2825
FIGURE 1383

MSGPTWLPPKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGGPEDRGPAWVGSHGVL
QHTQGLPADRGGLRPGSLDAEIDLLSTTLAKLNGGRGHASRRPDRQAYEPPPPPAYRTGSLKPNPASPLPASPYG
GPTPASYTTASTPAGPAFFVQVKVAQPVRCGPPRRGASQASGPLPGPHFPLPGRGEVWVGPGYRSQREPGPGAKE
EAAGVSGPAGRGRGGEHGPQVPLSQPPEDELDRLTKKLVHDMNHPPSGEYFGQCGGCGEDVVG DGAGVVALDRV F
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCVATLEKCATCSQPILDRILRAMGKAYHPGCFTCVVCHRGLDGI
PFTVDATSQIHCIEDFHRKFAPRCVCGGAIMPEPGQEETVRIVALDRSFHIGCYKCEECGLLLSSEGECQGCYP
LDGHILCKACSAWRIQELSATVTTDC

1555/2825
FIGURE 1384

GGCTTCTTGGCGCG**ATG**AGGTTCCGGTTCTGTGGTGATCTGGACTGTCCCGACTGGGTCTTGGCAGAAATCAGCA
CGCTGGCCAAGATGTCCTCTGTGAAGTTGCGGCTGCTCTGCAGCCAGGTACTAAAGGAGCTGCTGGGACAGGGGA
TTGATTATGAGAAAGATCCTGAAGCTCACGGCTGACGCCAAGTTTGAGTCAGGCGATGTGAAGGCCACAGTGGCAG
TGCTGAGTTTTTCATCCTCTCCAGTGCGGGCCAAGCACAGTGTTCGATGGCGAATCCTTGTCCAGTGAAGTGCAGCAGC
TGGGGCTGCCCAAAGAGCACGCGGCCAGCCTGTGCCGCTGTTATGAGGAGAAGCAAAGCCCCCTTGCAGAAAGCACT
TGCGGGTCTGCAGCCTACGCATGAATAGGTTGGCAGGTGTGGGCTGGCGGGTGGACTACACCCTGAGCTCCAGCC
TGCTGCAATCCGTGGAAGAGCCCATGGTGACCTGCGGCTGGAGGTGGCAGCTGCCCCAGGGACCCAGCCCAGC
CTGTTGCCATGTCCCTCTCAGCAGACAAGTTCCAGGTCCCTCTGGCAGAACTGAAGCAGGCCCAGACCCCTGATGA
GCTCCCTGGGCT**TGAG**GAGAAGGGTGTTCCAGGCCTGTGTGGAGCCGCCCTGCCCGTATGGAGTCACGCCCTCTGA
ACTGCTCTTCGGGAGGCAGCCCTGGTTCTAGGATGCTGAGGCCCTGGCCCCGACTCTGGCCTCCAGATCCCCAG
CTGCCTCACTTCTCTCTTGAGAACTTGGCTCAGGGCTCCTGAGGACCTTTCCAGCATTACCTTCCCTTCCCTTG
AAAGTAGAGATGAGGTTTCTCCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACCTTG
CCCTCCCAAAGTGCTGGGATTACAGGCGTAAGCCACTGCGCCAGCCACTGCCATCATCTTTAGGAAGAGAGAAG
TGACCATGCCTGAACCAGTCATTGGCAAGAGGAACGGTGTTATGGACTGAATGTTTCATGTTTCTCCAGAATTCAT
ATGCTGAAGCCTCTGTCCACACATGCACACCAGATGAGGGCCATGTGCGCACACGAGGTGGCTGTCTACAAGGCC
AGAAAGAGGGCTGTCAACAGGAACTGCGTCTGCTGGCACCTTGATCTTGAACCTCCAGCCTCCAGAACTGTGAG
AAAGAAATCTCTATGGTGTAAGCCACTAGTCTGTGGCATTGTTATAGCAGCTCGAGAAGACTAAGGCAGATGGGC
TTCCAGGACTGGCCCAGACCAGCCAGGGCTCCTTGTAAGAAAGGCTGATGCCAGGGTTGGCACATGGAGGGTACA
AGGAGGACTCGCCTGGAGTATCTTAAGGAACCTATCGAAGAATAATGGCTTGTTTCCACTGGCCAAAGATGGGACA
ATTTGAACATCAAAAGAGATACTTACTGACTCCACTCCTGACTTCTGCTTCTGAAAAAATGAAGTAGGTGTTTTT
CCTATTCTCCCACTAAGTACAGTTAAACAACCTGGATGTTACATATAAAACAAACAAAAAGACTCCGAGCGATG
GAGAGAAGGCACCCCTAGCCTGGCTGGGATCCTCAGGACCTGAGGCTCCACAGAGAGAAATTCCTGGAATCTGGAC
CCCATGGCCCAGTCAGGTTACACAAAAGTATCATCACAGATCTGTAGAACTATACAAAAGTGCTAACATTTCATG
ATTAGGGTCTCAGAAGGTAAGGAGGAAGAGAGTGGAATGGAAAAAGTATTCAAAAAATAATCACTAAAGGCCAG
GTGCAGTGGCCCATGCCTGTAATCCAGCACTTTGGGAGGTGGGACAATTGCTTTAGACCTTGCAACTGGCCTGA
GCAACACAGGGAGACTCAGTTTCTCCAAAAAATAAAAAATTAGCCGATCATGAAAAAAAAAAAAAAAAAAAAA

1556/2825
FIGURE 1385

MRFRFCGDLDPCDWVLAETLAKMSSVKLRLLCSQVLKELLGQGIDYEKILKLTADAKFESGDVKATVAVLSFI
LSSAAKHSVDGESLSSELQQLGLPKEHAASLCRCYEEKQSPLQKHLRVCSLRMNRLAGVGWRVDYTLSSSLLQSV
EPPMVHLRLEVAAAPGTPAQPVAMSLSADKFQVLLAELKQAQTLMSSLG

1557/2825
FIGURE 1386

CGGACCGTGCAATGGCCCAGCGTAAGAATGCCAAGAGCAGCGGCAACAGCAGCAGCAGCGGCTCCGGCAGCGGTA
GCACGAGTGCGGGCAGCAGCAGCCCCGGGGCCCGGAGAGAGACAAAGCATGGAGGACACAAGAATGGGAGGAAAG
GCGGACTCTCAGGAAC TTCATTCTTCACGTGGTTTATGGTGATTGCATTGCTGGGCGTCTGGACATCTGTAGCTG
TCGTTTGGTTTGATCTTGTTGACTATGAGGAAAGTCTAGGAAAAGTAGGAATCTATGATGCTGATGGTGTATGGAG
ATTTTGATGTGGATGATGCCAAAGTTTTATTAGGACTTAAAGAGAGATCTACTTCAGAGCCAGCAGTCCCGCCAG
AAGAGGCTGAGCCACACACTGAGCCCGAGGAGCAGGTTCTGTGGAGGCAGAACCCAGAAATATCGAAGATGAAG
CAAAAGAACAAATTCAGTCCCTTCTCCATGAAATGGTACACGCAGAACATGTTGAGGGAGAAGACTTGCAACAAG
AAGATGGACCCACAGGAGAACCACAACAAGAGGATGATGAGTTTCTTATGGCGACTGATGTAGATGATAGATTTG
AGACCTGGAACCTGAAGTATCTCATGAAGAAACCGAGCATAGTTACCACGTGGAAGAGACAGTTTTACAAGACT
GTAATCAGGATATGGAAGAGATGATGTCTGAGCAGGAAAATCCAGATTCCAGTGAACAGTAGTAGAAGATGAAA
GATTGCACCATGATACAGATGATGTAACATAACCAAGTCTATGAGGAACAAGCAGTATATGAACCTCTAGAAAATG
AAGGGATAGAAATCACAGAAGTAACTGCTCCCCCTGAGGATAATCCTGTAGAAGATTCACAGGTAATTGTAGAAG
AAGTAAGCATTTTTCTGTGGAAGAACAGCAGGAAGTACCACCAGATACTTAAAGCTTCAAAAAGACTGCCCTA
CCACCACAGGAGGACCAGCCTAACCATACGCTCCAAAAGATGGCTGTGATAGATCTTGTGAAGCAATTACTGAGC
AGATCAAGATCTTTGGGAAGGAACACTAAAGATGTTTTGAATGAATTATAGTCCACTGGCATTTTAGTGTATTTT
TTTTCTTTTTTACAAACACACATTTCTAAAAATGTCATGTTACATTCTGTCATGTCCCTTTTGATAGCATTAGTG
GATCCATTGGATTTCTTTTTCTTTTTGTGAGACAGCTTTTAGTCTTACCTGAATTTATGTGTGTTTTCCGACA
GTGGTTAATAATTATATTGGTGATGTAGCAGCAATTGTGTTGGCAGGGTTTTCATATATTATTAGTAATTAACAC
TAACTGTTGGACTGACTTGTGTACACTGTGTTAAACATGATTTAAAAGCTATTAAGAGTACTTTGTGTTAGCACT
CTTAAAAACGCTAACAGAGATCATCATTAGCTGTGAAGATTTGAGTTGTATATACCTGCACTGATATTCTTATCA
AAAAATTTCTACATTAGCTTTAAGTGTTTCAAGTTAAACACTTTTGAAATTTTTGTAGCTTTTAGCTGATTAATTAGA
AAAAATTAATATTTTCAAGTAAAGTTTTAAATTATCATTTATTTATTTTTTAAATGAGAGGGGAAAGCTGAAATTC
CTTGTTAAGACACAAGGAAAAAGAATGGCCCTACTATTATCATGCAAAAATGCTTTGTTGGCACCTCAGATTAAT
CATATAATAGCTATAGTCTCTTCAGCATTTGTTTAAATTTTAGAAAACCTGTATAAATTACTGGTGCACTAACTTA
AAGATTATTCTGCCTTTGGCTAATTGAGTAATTCCTCCAGCACTAGAGACCGCTCAGTGCTCTTACTAGATGA
ACTCAGTAACGCCTTGAGCTGGGTTGATTGAGGATGTTGTGAAAAGCTCACAGAGCCCGATGCCTGCTGCTATTTT
ACGGCAATGAGCCTTTTTCTTTCTACACTGAAGATTTTCTTCTTATTTAATGTGGTTTTATTTTGGGCTCAGAAAT
AATTGCTCTGTTGAAAATAATCCTTTGTGCAAAAAGAAGGTAGCTACCACATCATTTTGAAAGGACCATGAGCAA
CTATAAGCAAAGCCATAAGAAGTGGTTTGATCGATATATTAGGGGTAGCTCTTGATTTTGTTAACATTAAAGATAA
GGTGACTTTTTCCCCCTGCTTTTAGGATTAATAATCAAAGATACTTCTATATTTTTATCACTATAGATCATAGTTA
TTATACAATGTAGTGAGTCCTGCATGGGTACTCGATGTGTAATGAAACCTGAAATAATAAGATAATAAGAAAAGC
AATAATTTTCTAAAGCTGTGCTGTGCGTGATACAGAGACGATACTCAAATTATAATAAACTCTTCATTTTGTGA
ATTATAGAAGCTACTTTTTATAAAGCCATATTTTTTTAGGGAACTAAGGAGTGACATAGAAGTATGAATGAGC
AAAAGTAAGTTTTGCTGGATTTTTGTAGAAGTCTGGACGTTGAGGATTCATTATGCTGTGGTTAACTTTAAATAT
TTTTGAATTCCAAATATCTGAATTAATGAGCCTTGTGTTACAAATATGTGCCATTGTGCAACATCGGTGGATTT
TCTAAAAATAATGTAAATGTCTTCTATTAAATGTTGAGTGCAATAAAATCCAGAA

1558/2825
FIGURE 1387

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGCHKNGRKGGLSGTSFFTWMVIALLGVWTSVAVVWF
DLVDYEEVLGKLGIIYDADGDGDFDVDDAKVLLGLKERSTSEPAVPPEEAEPHTEPEEQVPVEAEPQNIIDEAKEQ
IQSLLHEMVHAEHVEGEDLQQEDGPTGEPQQEDDEFMATDVDDRFEFTEPEVSHEETEHSYHVEETVSQDCNQD
MEEMMSEQENPDSSEPVEDERLHHDTDVITYQVYEEQAVYEPLENEGIEITEVTAPPEDNPVEDSQVIVEEVS
FPVEEQQEVPPETNRKTDDPEQKAKVKKKKPKLLNKFDTIKAEKDAAEKLKRGKIEEAVNAFKELVRKYPQSP
RARYGKAQCEDDLAEKRRSNEVLRGAIETYQEVASLPDVPADLLKLSLKRRSDRQQFLGHMRGSLTLQRLVQLF
PNDTSLKNDLGVGYYLLIGDNDNAKKVYEEVLSVTPNDGFAKVHYGFILKAQNKIAESIPYLKEGIESGDPGTDDG
RFYFHLGDAMQVRGNKEAYKWYELGHKRGHFASVWQSRSLYNVNLKAQPWWTPKETGYTELKSLERNWKLIRDE
GLAVMDKAKGLFLPEDENLREKGDWSQFTLWQQGRNENACKGAPKTCTLLEKFPETTGCRRGQIKYSIMHPGTH
VWPHTGPTNCRRLRMHLGLVIPKEGCKIRCANETKTWEEGKVLIFDDSFHEVWQDASSFRLIFIVDVWHPELTPQ
QRRSLPAI

1559/2825
FIGURE 1388

AGGCTGTCTGCAGAGATTTGAAAA**ATG**GCAACAAATGAAAGTGTCTCAGCATCTTTAGTTTCTCAGCATCCTTGGCTGTG
GAATATGTAGATTCACCTTTTACCTGAGAATCCTCTGCAAGAACCATTTAAAAATGCTTGGAACATATGTTGAAT
AATTATACAAAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTTCATGAAGCCCTTTATTTCTTATTCTGTGTTA
CCTGGATTTTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAGGATAAGCCAGAGACATGGGAA
AACCAATGGAAGTGTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACTTAT
TATTTTACAGAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGC
TTTGGTTGTGTCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAG
TATATTCATAAAGTTTCATCATGAGTTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACT
CTAATTCCTTGGAACTGGATTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCCTTCTTTGGGCATGGGTG
ACCATTCGTTTATTAGAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCT
TTCTATGCTGGTTCCTCGGCATCATGATTTCCACCACATGAACCTTCATTGGAACTATGCTTCAACATTTACATGG
TGGGATCGAATTTTGGAACTAGTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACT
GAAT**TAA**ATATCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCTGAATTCAGAACTAGTAGCTAACATTGCT
TCTGGAGAGCAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTC
CTAGTGGGAACCTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGT
TTTCATGAGGAAGTTTTAAAGACCATGTTCCCTAAGCTTCCAAGAAGGTTTTGGATACTAGAAGTATTAATCTAT
GGCTTTTCTCCCAGTAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCAT
TTCAGAAAATTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTTATTTTTTTTTTGGAGACAAAGCCACA
CTCTGTCTCCTTGGCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCAGTTCAAGCAATTC
TTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCAGCTAATTTTTGTATTTTTGTGTA
GAGATGGGGTTTACAGATGTTGGCCAGGCTGGTCTCAAACCTTCTGACCTCAAGTGATCTGCCCACCTTGGCCTCC
CAAAGTGCTGGGATTACAGGTGTAAGCCACTGCGCCCGGCCCTTTTAACTTTAAACATGTTTTAGAAATTCACCTA
AAGATCAAAAATATCATGGATTGAACCTCATCAATTGATAGCAGTGAGTGACTGAAGCTTCCAAATCAAGAAAAGC
CGGCACCAAGAACTTCCATTCTAATCTAGAGCTGACCAGTTTGAGCTGATTCTCTCTTTGAAGAGTCCTTCTTGA
TTGCAGTGCAGTACTGGCATTCTGAATGGATGTAAGTGGAGTATTTTAGTCTAAAGGCTTTTCAAATTACTTGA
ATTTTTTTTAAAAATTGAGGAGCTTTATTTCTATTTACCTTCCATTTTTGTGTGAAAAAAAAAAAAAAAAA

1560/2825
FIGURE 1389

MATNESVSIFSSASLAVEYVDSLLENPLQEPFKNAWNYMLNNTKFIATWGSILIVHEALYFLFCLPGFLFQFI
PYMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLPLICGTYYFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRLHHKRIYKYIHKVHHEFQAPFGMEA EYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFHHMNFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKTE

[illegible]

1562/2825
FIGURE 1391

MSYIPGQFVTAVVQRVEIHKLRQGENLILGFSIGGGIDQDPSQNPFS
EDKTDKGIYVTRVSEGGPAEIAGLQIGD
KIMQVNGWDMTMVTHDQARKRLTKRSEEVVRLLVTRQSLQKAVQQSMLS

1563/2825
FIGURE 1392

GCGCCCGCGCCTCGGGCCGTCGGGAGCGGAGCCTCCTCGGGACCAGGACTTCAGGGCCACAGGTGCTGCCAAG**AT**
GCTCCAGGGCACCTGCTCCGTGCTCCTGCTCTGGGGAATCCTGGGGGCCATCCAGGCCCAGCAGCAGGAGGTCAT
CTCGCCGGACACTACCGAGAGAAAACAACAACTGCCAGAGAAGACCGACTGCCCATCCACGTGTA**CT**TCTGCTGCT
GGACACCTCGGAGAGCGTCACCATGCAGTCCCCACGGACATCCTGCTCTTCCACATGAAGCAGTTCTGTCGCCGA
GTT**C**ATCAGCCAGCTGCAGAACGAGTTCTACCTGGACCAGGTGGCGCTGAGCTGGCGCTACGGCGGGCCTGCACTT
CTCTGACCAGGTGGAGGTGTT**C**AGCCCCACGGGACGCGACCGGGCCTCCTT**C**ATCAAGAACCTGCAGGGCATCAG
CTCCTTCCGCCGCGGCACCTT**C**ACCGACTGCGCGCTGGCCAACATGACGGAGCAGATCCGGCAGGACCGCAGCAA
GGGCACCGTCCACTT**C**GCCGTGGTCATCACCGACGGCCACGT**C**ACCGGCAGCCCCCTGCGGGGGCATCAAGCTGCA
GGCCGAGCGGGCCCGCGAGGAGGGCATCCGGCTCTT**C**GCCGTGGCCCCAACCAGAACCTGAAGGAGCAGGGCCT
GCGGGACATCGCCAGCACGCCGCACGAGCTCTACCGCAACGACTACGCCACCATGCTGCCCCACTCCACCGAGAT
CAACCAGGACACCATCAACCGCATCATCAAGGT**C**ATGAAACACGAAGCCTACGGAGAGTGCTACAAGGTGAGCTG
CCTGGAATCCCTGGGCCCTCTGGGCCCCAAGGGCTACCGTGGACAGAAGGGTGCCAAGGGCAACATGGGTGAGCC
GGGAGAGCCTGGCCAGAAGGGAAGACAGGGAGACCGGGCATCGAAGGCCCCATTGGATTCCAGGACCCAAGGG
CGTTCCTGGCTTCAAAGGAGAGAAGGGTGAATTTGGAGCCGACGGTCGCAAGGGGGCCCCCTGGCCTGGCTGGCAA
GAACGGGACCGATGGACAGAAGGGCAAGCTGGGGCGCATCGGACCTCCTGGCTGCAAGGGAGACCTGGAAACCG
GGGCCCCGACGGTTACCGGGGGAAGCAGGGAGTCCAGGGGAGCGAGGAGACCAAGGCGGCAAGGGGGACCTGG
CCGCCAGGACGCAGAGGGCCCCCGGGAGAAATCGGGGCCAAGGGAAGCAAGGGGTATCAAGGCAACAATGGAGC
CCCAGGAAGTCTTGGTGTGAAAGGAGCCAAGGGCGGGCCTGGGCCCCGCGGACCCAAAGGCGAGCCGGGGCGCAG
GGGAGACCCCGGCACCAAGGGCAGCCAGGCAGCGATGGCCCCAAGGGGGAGAAGGGGGACCTGGCCCTGAGGG
CCCCCGCGGCCTGGCTGGAGAGGTTGGCAACAAAGGAGCCAAGGGAGACCGAGGCTTGCTGGACCCAGAGGGCC
CCAGGGAGCTCTTGGGGAGCCCGGAAAGCAGGGATCTCGGGGAGACCCCGGTGATGCAGGACCCCGTGGAGACTC
AGGACAGCCAGGCCCCAAGGGAGACCCCGGCAGGCCTGGATT**C**AGCTACCCAGGACCCCGAGGAGCACC CGGAGA
AAAAGGCGAGCCCGGCCACGCGGCCCGAGGGAGGCCGAGGCGACTTTGGCTTGAAAGGAGAACTGGGAGGAA
AGGAGAGAAAGGAGAGCCTGCGGATCCTGGTCCCCCTGGTGAGCCAGGCCCTCGGGGGCCAAGAGGAGTCCAGG
ACCCGAGGGTGAGCCCGGCCCCCTGGAGACCCCGGTCTACGGAGTGTGACGT**C**ATGACCTACGTGAGGGAGAC
CTGCGGGTGCTGCGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTT**C**GT**C**ATCGACAGCTCCGAGAGCAT
TGGGTACACCAACTT**C**ACACTGGAGAAGAACTT**C**GT**C**ATCAACGTGGTCAACAGGCTGGGTGCCATCGCTAAGGA
CCCCAAGTCCGAGACAGGGACGCGTGTGGCGTGGTGCAGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCT
GGACGACGAACATATCGACTCCCTGTGAGCTTCAAGGAGGCTGTCAAGAACCTCGAGTGGA**TT**GCGGGCGGCAC
CTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCCTC**C**ATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTT
TGCGGTGGT**C**ATCACGGACGGGCGCCACGACCCTCGGGACGATGACCTCAACTTGCGGGCGCTGTGCGATCGCGA
CGT**C**ACAGTGACGGCCATCGGCATCGGGGACATGTTCCACGAGAAGCACGAGAGTGA**AA**ACCTCTACTCCATCGC
CTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGTTCTCCGACCTGGTCGCTGAGAAGTT**C**ATCGATGACAT
GGAGGACGTCTCTGCCCCGACCTCAGATCGTGTGCCAGACCTTCCCTGCCAAACAGAGCTGTCCGTGGCACA
GTGCACGCAGCGGCCCGTGGACATCGTCTTCTGCTGGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAA
GGCCCGCGCTTCTGTTGGAGCAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCTCTCAACGCACG
CGTGGCGCTGCTGCA**TT**TGGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACTGCCAT
CCACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGACGCCATCAA
TGCCATCGTGCGCAGCCCGCTGGCGGGGCCCGGAGGCACGCAGAGCTGTCTTCTGTTCTCTCACGGACGGCGT
CACGGGCAACGACAGTCTGCACGAGTGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTT
GGG**C**AGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGCGTGTCCACGAGAAGGA
CTATGACAGCCTGGCGCAACCCGGCTTCTT**C**GACCGCTT**C**ATCCGCTGGATCTGCT**TAG**CGCCGCCCGCCGGGCC
CGCAGT**C**GAGGGTCTGAGCCACCCCGTCCATGGTGCTAAGCGGGCCCGGGTCCCACACGGCCAGCACCGCTGC
TACTCGGACGACGCCCTGGGCCTGCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCA
GCCCCAGGTCTCCCAGGCCCTCCGCAGGCTGCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCT
ACCTGGCCCCCTGAGCTCTGGAGCAAGCCCTGACCCAATAAAGGCTTTGAACCCAAAAAAAAAA

1564/2825
FIGURE 1393

MLQGTCSVLLLWGILGAIQAQQQEVI SPDTTERNNNCPEKTD CPIHVYFVLDTSESVTMQSPTDILLFHKQFVP
QFISQLQNEFYLDQVALSWRYGGLHFSDQVEVFSPPGSDRASFIKNLQGISSFRGTFTDCALANMTEQIRQDRS
KGTVHFAVVITDGHVTGSPCGGIKLQAERAREEGIRLFAVAPNQNLEQGLRDIAS TPHELYRNDYATMLPDSTE
INQDTINRIIKVMKHEAYGECYKVSCLEIPGPSGPKGYRGQKGAKGNMGEPGEPGQKGRQGDPIEGPIGFFGPK
GVPGFKEKGEFGADGRKGAPGLAGKNGTDGQKGKLGRIGPPGCKGDPGNRGPDPGYPGEAGSPGERGDQGGKGDP
GRPGRRGPPGEIGAKGSKGYQGNNGAPGSPGVKGAKGGPGPRGPKGEPGRRGDPGTKGSPGSDGPKGEKGDPGPE
GPRGLAGEVGNKGAKGDRGLPGPRGPQALGEPGKQGSRGDPGDAGPRGDSGQPGPKGDPGRPGFSYPGPRGAPG
EKGEPPRGPEGGRGDFGLKGEPPGRKGEKGEPADPGPPGEPGPRGPRGVPGPEGEPGPPGDPGLTECDVMTYVRE
TCGCCDCEKRCGALDVVFVIDSSESIGYTNFTLEKNFVINVNRLGAIADPKSETGTRVGVVQYSHEGTFEAIQ
LDDEHIDSLSSFEAVKNLEWIAGGTWTPSALKFAYDRLIKESRRQKTRVFAVVITDGRHDPRDDDLNLRALCDR
DVTVTAIGIGDMFHEKHESENLYSIACDKPQQVRNMTLFSDLVAEKFIDDMEDVLCPPQIVCPDLPCQTELSVA
QCTQRPVDIVFLLDGSERLGEQNFHKARRFVEQVARRLTLARRDDDPLNARVALLQFGGPGEQQVAFPLSHNLTA
IHEALETQYLNFSHVGAGVVHAINAIVRSRGGARRHAELS FVFLTDGVTGNDSLHESAHS MRKQNVVPTVLA
LGSDVDMDLTTLTSLGDRAAVFHEKDYDSL AQPGFFDRFIRWIC

1565/2825
FIGURE 1394

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGA**ATG**GATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTTGGCACCTATGCACCTCCAGAGGTTCCGAGAAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCGGCCATATAGATTCTGCTCATTATACAAATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAGAACTCACTGAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCG
GTGCTCTTGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT
GATAGTTTTGCTAGCCACCCTAATTATCCATATTCAGATGAATAT**TAA**CATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTTATCATTTTG
AAAT

1566/2825
FIGURE 1395

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGHEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLDDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

1567/2825
FIGURE 1396A

GCGGGGACGCGACGAGCCCGGGTCGCCGTTGGCAGCAGCAGCAGCAACACCAGCAGCAGCAGCAGCCCCGGCGG
CGGCGCGGAACCCCGAGCGCCCGGGCGCACCCCGGCTTCCCGGAGCGCGACGCGGGCGGAGCAGCCCCGGTGCGG
CCGCGCGCGCCTTAGGCTCGGCCCCCGGGCTCGGGGACCCCGACTCCCGGCCAGCGAGCGCGTCCCCGGCGGC
GCCCCGAGAGCCCGAGGAGGCGCGGCCGAGAGCCCGGGGGAGGGGGGCGGCCACCGCCCCGCGCCGGGCATCCTC
AGGAGCCCCAGAGCGCGGAGGGCGCGGCCGCCGAGCGGTGCTGGCCCCCGCGGGCTCCCCGGACCTTCCCCAC
CGCTGGGCCCCGAGGGACGCGTGATCGGGCGGGCGGCCGGGCGCAAGGGTGGGAGGGAGCCGCCCCCGCCCGCGC
CCCCCTCGGCCCTCGCCCCAAACCCCTGGGCGCCGGGCCCCGGGCCGCGCGGCCTGAAGCGCCCGCGATGGCGAGC
CCGCCGCGGCACGGGCCGCCCGGGCCGGCGAGCGGAGACGGCCCCAACCTCAACAACAACAACAACAACAAC
AACCACAGCGTGCGCAAGTGCGGCTACCTGCGCAACGAAGAGCATGGCCACAAGCGCTTCTTCGTGCTGCGCGGA
CCCGGCGCGGGCGGCGACGAGGCGACGGCGGGCGGGGGTTCGGCGCCGCAACCGCCGCGGCTCGAGTACTACGAG
AGCGAGAAAAAGTGGCGGAGCAAGGCGAGCGCGCCGAAACGGGTGATCGCTCTCGACTGCTGCCTGAACATCAAC
AAGCGCGCCGACGCCAAGCACAGTACCTGATCGCCCTCTACACCAAGGACGAGTACTTCGCCGTGGCCGCCGAG
AACGAGCAGGAGCAGGAGGGCTGGTACCGCGCGCTACCGACCTGGTCAGCGAGGGCCGCGCGGCCGCCGAGAC
GCGCCCCCGCGCGCGCGCCCGCGCGTCTGCGAGCGCTCCCTGCCCGCGCCCTGGGCGGCTCTGCCGGCGCC
GCCGGGGCCGAGGACAGCTACGGGCTGGTGGCTCCCGCCACGGCCGCTACCGTGAGGTGTGGCAGGTGAACCTG
AAGCCCAAGGGTCTGGGCCAGAGCAAGAACCTGACGGGGGTGTACCGTCTGTGCCTGTCTGCGCGCACCATCGGC
TTCGTGAAGCTCAACTGCGAGCAGCCGTGCGTGACGCTGCAGCTCATGAACATCCGCCGTGCGGCCACTCGGAC
AGCTTCTTCTTCATCGAGGTGGGCGCTCGGCCGTCACAGGCCCGGCGAGCTGTGGATGCAGGCGGACGACTCG
GTGGTGGCGCAGAATCCACGAGACCATCTGGAGGCCATGAAGGCGCTCAAGGAGCTCTTCGAGTTCCGGCCG
CGCAGTAAGAGCCAATCGTCGGGGTCGTGGGCCACGACCCCATCAGCGTCCCGGCGCGCGCCGCCACCACCAC
CTGGTCAACCTGCCCCCAGCCAGACGGGCTGGTGCGCCGCTCGCGCACCGACAGCCTGGCCGCCACCCGCCG
GCGGCCAAGTGAGCTCGTGCCGGGTGCGCACCGCCAGCGAGGGCGACGGCGGCCGGGCTGCGGGAGCGGCGGCC
GCGGCGCAGAGGTGGTGTGGTGGTGGGAGCCCCCTGAGCCCCGGGCGGGTGC GCGCGCCCCCTGAGCCGCTCG
CACACCCTGAGCGGCGGCTGCGGCGGCCGCGGGAGCAAGGTGGCGCTGCTGCCGGCAGGGGGCGCGCTGCAACAC
AGCCGCTCCATGTCCATGCCCGTGGCGCACTCGCCGCCCGCCGCCACCAGCCCCGGCTCCCTGTCTCGTCCAGCAGC
GGCCACGGCTCGGGCTCCTACCCGCCGCCCGCCCGGCCCGCACCCGCCTCTGCCGCATCCGCTGCACCACGGCCCC
GGCCAGCGGCCCTCCAGCGGCAGCGCCTCCGCCCTCGGGCTCCCCAGCGACCCCGGCTTCATGTCCCTGGACGAG
TACGGCTCCAGCCCAGGCGACCTGCGCGCCTTCTGCGAGCCACCGAAGCAACACGCCCCAGTCCATCGCGGAGACG
CCCCCGGCCCGAGACGGCGGCGGCGGCGGTGAGTTCTACGGGTACATGACCATGGACAGGCCCCCTGAGCCACTGT
GGCCGCTCCTACCGCCGGGTCTCGGGGGACGCGGCCCAGGACCTGGACCGAGGGCTGCGCAAGAGGACCTACTCC
CTGACCACGCCAGCCCGGCGAGCGGCCGGTGGCCAGCCCTCCTCTGCCTCGCTGGATGAATACACCCTGATGCGG
GCCACCTTCTCGGGCAGCGCGGGCCGCTCTGCCCGTCTCTGCCCGCGTCTCTCCCAAGGTGGCCTACCACCCC
TACCCAGAGGACTACGGAGACATCGAGATCGGCTCCACAGGAGCTCCAGCAGCAACCTGGGGGCGAGACGCGC
TACATGCCCATGACGCCCCGCGCGGCCCTTCGCGGGCAGTGGGAGCGGCAGCTGCAGGAGCGACGACTACATGCC
ATGAGCCCCGCCAGCGTGTCCGCCCCCAAGCAGATCTTGACGCCAGGGCCGCGCCGCCGCCGCCGCCGCGCTG
CCTTCTGCGGGGCTGCGGGGCCAGCACCCACCTCTGCGGCGGGCAGGACATTCCCGGCGAGCGGGGGCGGCTAC
AAGGCCAGCTCGCCCGCCGAGAGCTCCCCGAGGACAGTGGGTACATGCGCATGTGGTGC GGTTCCAAGCTGTCC
ATGGAGCATGCAGATGGCAAGCTGCTGCCCAACGGGGACTACCTCAACGTGTCCCCAGCGACGCGGTACCACG
GGCACCCCGCCGACTTCTTCTCCGAGCCCTGCACCCCGGCGGGGAGCGCTCAGGGGCGTTCCCGGCTGCTGC
TACAGTCTTTGCCCGCTCCTACAAGGCCCCCTACACCTGTGGCGGGACAGCGACCACTACGTGCTCATGAGC
TCCCCGTGGGGCGCATCTTGAGGAGGAGCGTCTGGAGCCTCAGGCCACGCCAGGGGCCAGCCAGGCGGCCAGC
GCCTTCGGGGCGGCCCCACGAGCCCCCTACCCCTGTAGTGCCTTCGCCCGTGC GGCGTAGCGGCCGCCGGTCA
GGTTTCTTGGGCCAGCGCGGCCGGGCGGTGAGGCCACGCGCCTGTCCCTGGAGGGGCTGCCAGCCTGCCAGC
ATGCACGAGTACCACTGCCACCGGAGCCCAAGAGCCCCGGCGAGTACATCAACATCGACTTTGGCGAGCCCCGG
GCCCCCTGTGCGCGCCCGCGCCTCCCCTGCTGGCGTGGCGGCCCTCGTCTCTCTCGCTCTTGTCCGCCAGCAGC
CCGGCCTCGTGCCTGGGCTCAGGCACCCCGGGCACAGCAGCGACAGCCGGCAGCGGTCTCCGCTCTCCGACTAC
ATGAACCTCGACTTCAGCTCCCCAAGTCTCCTAAGCCGGGCGCCCCGAGCGGCCACCCCGTGGGCTCCTTGGAC
GGCCTCCTGTCCCCGAGGCCTCCTCCCCGTATCCGCCGTTGCCCGCGCTCCGTCCGCTCCCCGTCTGCTCT

CTGACAGCCGCGCCACACCGCCGCGCCGCGGGGGAGCTGTACCGCTGCCCCCGCCTCGGCCGTTGCCACCGCC
CAGGGCCCGGGCGCCGCTCATCGTTGTCTCGGACACCGGGACAATGGTGA CTACACCGAGATGGCTTTTGGT
GTGGCCGCCACCCCGCCGCAACCTATCGCGGCCCCCCCGAAGCCAGAAGCTGCCCGCGTGGCCAGCCCCGACGTGC
GGCGTGAAGAGGCTGAGCCTCATGGAGCAGGTGTCTGGGAGTCGAGGCCTTCTTCGAGGCCAGCCAGCCCCGGAC
CCCCACCGCGGGCGCCAAGGTTCATCCGCGCAGACCCGAGGGGGGCGCCGCGCCGCACAGTTCCGAGACCTTCTCC
TCCACCACGACGGTCACCCCGTGTCCCCGTCTTCGCCACAACCCCAAGCGCCACAACCTCGGCCTCCGTGGAA
AATGTCTCTCTCAGGAAAAAGCAGCGAGGGGCGGCGTGGGTGTCTGGCCCTGGAGGGGGCGACGAGCCGCCACCTCC
CCACGACAGTTGCAGCCGGCGCCCCCTTTGGCACCGCAGGGCGGCGCTGGACCCCGGGTCAGCCCGGGGGCTTG
GTCGGTTGTCTCTGGGAGCGGTGGATCGCCCATGCGCAGAGAGACCTCTGCCGCTTCCAGAATGGTCTCAACTAC
ATCGCCATCGACGTGAGGGAGGAGCCCGGGCTGCCACCCAGCCGAGCCGCCGCGCCGCGCTTCTCAGCCG
GGAGACAAGAGCTCTTGGGGCCGGACCCGAAGCCTCGGGGGTCTCATCAGCGCTGTGGGCGTCGGCAGCACCGGC
GGCGGGTGTGGGGGGCGGGTCCCGGTGCCCTGCCCTTGCCAACACCTACGCCAGCATTGACTTCTTGTCCAC
CACTTGAAGGAGGCCACCATCGTGAAAGAGTGAAGATCTGTCTGGCTTTATCACCAGGATGTACATGTTCAGAGA
ATATCATTAAAAAGAGACGCTCAGCGCTGTTTCAGCCCGAAGCTGCTTGCAGTTTTCTTTTGGATCTGAGCAATG
ACTGTGTTTTGGAAACATCTGTGGACTCTGATAGATGGGGCACACAAGGCAAGGTACCTGCCTCTTTCCCTTGT
TCCCGGATGGGCATTTCATCATTGTGCTGTTTGCCTTTTGTCTTTGTTTTGTTTTAACAAAATTAGCTGAAGAAGTT
ATTCTCAAGAAAATTGGATGTTTTTATTGGCCTTCTTAAATTGTGGCCAGTGTCTTTTAAATTTCTTCTTTTCT
CTTTTGGCAAAGCAGATATAACCCCTCAGCATGCTAGGAGAGTGCACCCGTACCTATGGAAGTGGTAAAATCTGGT
ATTTACTGGCTTACACTCAAAACGACCACAGTCTTACCTCAGTTCAAGGTAAAGCCGGATTTCCGTGGCGGGGT
CCACAGGACCTCCTGTAGTAGCCCTGCGCTGTGTGCTGAGCGCGTCTCGCCTTATTTAAATGGTCCAGTAG
ACAGCTGCTTGTGGATTCCAGTGCAGGTACCTGCGATGTTTACGTCCACACCGAGCCAGTGTGGGACTGACAT
TTCTCAATGGAAGTGAAATTTGGGATTGGACTTTGAAGACGATTACTAAATAATAATTATTATATGTAAGTGAAG
CAACCTACTTTTGAAGTCAACTGTATTGGGTAGTGGGAGGTGGGAGGGAAGGGCTTTGGGAAGGGGATGAATAT
CTCTTTTTTACCTTTTAAACAGACTTGTTTAACTTCTCTCGATGTAGATGTTTATGTAGGTACTTCACATTGCAAACGC
CTTTTATTCTATTTACAAGCTCAGATGTCTCTGCTCTCCTGAATCTTGGGCATGCCTTTCTGTAAACAAAAATCC
CTGTAGGCGTGTAGCAATTCCAGGGTGGTCCGGGTTTGGCAGATTTGATTTTTTAAAAATGTATTATCTTTAAT
AAAAATGTTATTTATGTCAACCAGTGAGGCTGCCCTGAACAAAAAAGCAAAAAAGAAAAAAGGAAAGA
AAGAACTGATAAAAAGAGGCATCCAGCCCTATGTTATTGATGGAAAAAGAAAAAGAAAGCAATCTCGCA
GTACATGTTACTTGTGCAAAAAATTCCGGACAAGACTACCCCTGTTTTATGTTTTAGTATTCTGAAAATACCAG
TGTGTGGCAGTTCTCGCAGATGTTACCTAAAAGTCTGAACTTGACCGGCAGAATGTTCTGCCGTTTTCTGCTCC
CTCGACACTTGATTGGAGGGCTGTGACCTCTCCTCCCGTGGGGGCTTCCCAGTGCCTATCTTCTCTGATAGTC
ATGGAGAGGTTACACTAATTCATTGGAGATGTAAGTTGTTGGTTTTGTTTTGTTTTGTTTTAGAAAAATATATA
TAAATATATAATAGATATCTATCGCTATAGAATAATGCATTAATAAAATGAGGCTTTTTTAGAGGAAGACCAAAA
AATTCAATGTCTTAAAAATATATTTAATGGCAATGCAAAAAGTCTTCTGCTTCCGTGCTGAACTTTAGAACAGAG
GATTGTATTGCAAGACAAAGTTGAATGTAAAGTGATCTCCCTGAACATTTTTTAAAGGTTTTACTTTTCTGAAATTA
TACATCACAGCAGTGCATAGGCCATATAATGTTAGCTGGAAGGTCAATTTTCAGTGTATGATATACTTTATTAAGA
TGTATAAAACATCCTGAAGTTTTTATTTAGTTTTGGGAATAGGCATCAGTGGGTGGTATTTGCTTTGTAAGTCC
CCCAGGTACGATAGGGACTGAATATGGACCCTGCTGAAAAGCAGTGTATTGACGCATATTTAACTCGCCCTCTATC
CGTAGAGTAGTCATGACACTATACAGATGGTTTCGTGTTTACTACTGCAGCTTAAACAAGCAAAATACACAGATGA
TAATATGCTAAATTTTCTCTATCCTGTACATTTTACAAAAAGGCATATGCAATATTTACATTTTTAATTTAGTT
TACAGAATGGAACCAAAATGTATAAATGTTATGTTTGCTAAAACTTACAAATGTATATTGGGTCTTTGTACATTT
TGCTGACTTACCTTAAATTTAAATATTTTTTGTATATAAACTTTAACAGTTATTAAACAGTGTCTTCTCTTT
GGGTACGTATTGTTTTCTGGATATCAAGATGTTAAATATATTTCTTGCTATTGTGATATGACAAGAGACTTAACTT
ATCTTGCTCTGTCTTCCACTGTACACGCTGTATATAGGGGTCAATGTGATGCTGCTGGAGACGAGAATAAACTGG
ACTAGAATAGTGCATTGTATTTAGTCTGTATTGATCATGGATGCCCTCCTTAATAGCCATATGCAATAAAATAAA
GTACATTATTTATGAAATGAA

1569/2825
FIGURE 1397

MASPPRHGPPGPASGDGPNLNNNNNNNNNHSVRKCGYL RNEEHGHRFFVLRGPGAGGDEATAGGGSAPQPPRLE
YYESEKKWRSKAGAPKRVIALDCCLNINKRADAKHKYLI ALYTKDEYFAVA AENEQE QEGWYRAL TDLVSEGRAA
AGDAPPAAAPAASCSASLPGALGGSAGAAGAEDSYGLVAPATAAYREVWQVNLKPKGLGQSKNLTGVYRLCLSAR
TIGFVKLNCEQPSVTLQLMNIRRCGHSDSFFFIEVGRSAVTGPGELWMQADDSVVAQNIHETILEAMKALKELFE
FRPRSKSQSSGSSATHPI SVPGARRHHHLVNLPPSQTGLVRRSRTDSL AATPPAAKCSSCRVRTASEGDGGRAAG
AAAAAQRLVSVAGSPLSPGPVRAPLSRSH TLSGGCGGRGSKVALLPAGGALQH SRSMSMPVAHSPPAATSPGSL S
SSSGHSGSYPPPPGPHPLPHPLHHGPGQRPSSGSASASGSPSDPGFMSLDEYGS SPGDLRAFCSHRSNTPE SI
AETPPARDGGGGGEFYGYMTMDRPLSHCGRSYRRVSGDAAQDLDRGLRKRTYSLTTPARQRPVQPSSASLDEYT
LMRATFSGSAGRLCPSCPASSPKVAYHPYPEDYGDIEIGSHRSSSSNLGADDGYMPMTPGA AFAGSGSGSCRSD D
YMPMSPASVSAPKQILQPRAAAAAAAVPSAGPAGPAP TSAAGRTFPASGGGYKASSPAESSPEDSGYMRMWCGS
KLSMEHADGKLLPNGDYLVNPSDAVTTGTPPDFSAALHPGGEPLRGVPGCCYSSLPRSYKAPYTCGGDS DQYV
LMS SPVGRILEERLEPQATPGPSQAASAFGAGPTQPPHPVVPSPVRRSGRRSGFLGQRGRAVRP TRLSLEGLPS
LPSMHEYPLPPEPKSPGEYINIDFGEPGARLSPPAPPLLASAASSSSLLSASSPASSLGSGTPTGSSDSRQR SPL
SDYMNLD FSSPKSPKPGAPSGHPVGS LDGLLSPEASSPYPLPPRPSASPSSSLQPPPPPPAPGELYRLPPASAV
ATAQGPGAASSLSSDTGDNGDYTEMAFGVAATPPQP IAAAPPKPEARVASPTSGVKRLSLMEQVSGVEAFLQASQ
PPDPHRGAKVIRADPQGRRRHSSSETFSSTTTVTPVSPFAHNPKRHNSASVENVSLRKSSEGGVGVGPGGGDEP
PTSPRQLQAPPLAPQGRPWTPGQPGGLVGCPGSGGSPMRRETSAGFQNGLN YIAIDVREEPGLPPQPQPPPPPL
PQPGDKSSWGRTRSLGGLISAVGVGSTGGGCGGPGPGALPPANTYASIDFLSHHLKEATIVKE

1570/2825
FIGURE 1398A

GGGTGATTGAGCGCCCGGCGAGGCGGAACGGGCCGCAAGAGGAGGAGGGGAGAGCCCGTCCGCGCCTGGGCTCCC
GGGGTGGCACGAGCCCGCGGCCGAGTGCAGGCGGAGGCGAGGAGGCCGCGGGGACGGGAGGCGAGGCCGCGCCG
GGCCCCGAAGCC**ATG**GAGAACGCGCACACCAAGACGGTGGAGGAGGTGCTGGGCCACTTCGGCGTCAACGAGAG
TACGGGGCTGAGCCTGGAACAGGTCAAGAAGCTTAAGGAGAGATGGGGCTCCAACGAGTTACCGGCTGAAGAAGG
AAAAACCTTGCTGGAACCTTGATGATTGAGCAGTTTGAAGACTTGCTAGTTAGGATTTTATTACTGGCAGCATGTAT
ATCTTTTGTGGCTTGGTTTGAAGAAGGTGAAGAAACAATTACAGCCTTTGTAGAACCTTTTGTAAATTTTACT
CATATTAGTAGCCAATGCAATTGTGGGTGTATGGCAGGAAAGAAATGCTGAAAATGCCATCGAAGCCCTTAAGGA
ATATGAGCCTGAAATGGGCAAAGTGTATCGACAGGACAGAAAGAGTGTGCAGCGGATTAAAGCTAAAGACATAGT
TCCTGGTGATATTGTAGAAATTGCTGTTGGTGACAAAGTTCTCTGCTGATATAAGGTTAACTTCCATCAAATCTAC
CACACTAAGAGTTGACCAGTCAATTCTCACAGGTGAATCTGTCTCTGTCATCAAGCACACTGATCCCGTCCCTGA
CCCACGAGCTGTCAACCAAGATAAAAAGAACATGCTGTTTTCTGGTACAAACATTGCTGCTGGGAAAGCTATGGG
AGTGGTGCTAGCAACTGGAGTTAACACCGAAATTGGCAAGATCCGGGATGAAATGGTGGCAACAGAACAGGAGAG
AACACCCCTTCAGCAAAACTAGATGAATTTGGGGAACAGCTTTCCAAAGTCATCTCCCTTATTTGCATTGCAGT
CTGGATCATAAATATTGGGCACCTCAATGACCCGGTTCATGGAGGGTCTGGATCAGAGGTGCTATTTACTACTT
TAAAATTGCAGTGGCCCTGGCTGTAGCAGCCATTCTGAAGGTCTGCCTGCAGTCATCACCACCTGCCTGGCTCT
TGGAACTCGCAGAATGGCAAAGAAAAATGCCATTGTTGGAAGCCTCCCGTCTGTGGAACCCCTTGGTTGTACTTC
TGTTATCTGCTCAGACAAGACTGGTACACTTACAACAAACCAGATGTCAGTCTGCAGGATGTTTCACTCTGGACAG
AGTGGAAGGTGATACTTGTTCCTTAATGAGTTTACCATAACTGGATCAACTTATGCACCTATTGGAGAAGTGCA
TAAAGATGATAAACAGTGAATTGTACCAGTATGATGGTCTGGTAGAATTAGCAACAATTTGTGCTCTTTGTAA
TGACTCTGCTTTGGATTACAATGAGGCAAAGGGTGTGTATGAAAAAGTTGGAGAAGCTACAGAGACTGCTCTCAC
TTGCCTAGTAGAGAAGATGAATGTATTTGATACCGAATTGAAGGGTCTTTCTAAAATAGAACGTGCAAATGCCTG
CAACTCAGTCATTAAACAGCTGATGAAAAAGGAATTCACCTCTAGAGTTTTCACGTGACAGAAAGTCAATGTCGGT
TTACTGTACACCAAATAAACCAAGCAGGACATCAATGAGCAAGATGTTTGTGAAGGGTGTCTCTGAAGGTGTCTAT
TGACAGGTGCACCCACATTGAGTTGGAAGTACTAAGGTTTCTATGACCTCTGGAGTCAAACAGAAGATCATGTC
TGTCATTGAGAGTGGGGTAGTGGCAGCGACACACTGCGATGCCTGGCCCTGGCCACTCATGACAACCCACTGAG
AAGAGAAGAAATGCACCTTGAGGACTCTGCCAACTTTATTAAATATGAGACCAATCTGACCTTCGTTGGCTGCGT
GGGCATGCTGGATCCTCCGAGAATCGAGGTGGCCCTCCTCCGTGAAGCTGTGCCGGAAGCAGGCATCCGGGTCTAT
CATGATCACTGGGGACAACAAGGGCACTGCTGTGGCCATCTGTGCGCCGATCGGCATCTTCGGGCAGGATGAGGA
CGTGACGTCAAAAGCTTTTACAGGCCGGGAGTTTGATGAACTCAACCCCTCCGCCCAGCGAGACGCCTGCCTGAA
CGCCCGCTGTTTTGCTCGAGTTGAACCCCTCCACAAGTCTAAAATCGTAGAATTTCTTCAGTCTTTTGATGAGAT
TACAGCTATGACTGGCGATGGCGTGAACGATGCTCCTGCTCTGAAGAAAGCCGAGATTGGCATTGCTATGGGCTC
TGGCACTGCGGTGGCTAAAACCGCTCTGAGATGGTCTGGCGGATGACAACCTTCTCCACCATTGTGGCTGCCGT
TGAGGAGGGGCGGGCAATCTACAACAACATGAAACAGTTCATCCGCTACCTCATCTCGTCCAACGTCGGGGAAGT
TGTCTGATTTTCTGACAGCAGCCCTTGGAATTTCCCGAGGCTTTGATTCTGTTTACGTGCTCTGGGTCAATCT
GGTGACAGATGGCCTGCCTGCCACTGCACTGGGGTTCAACCCCTCCTGATCTGGACATCATGAATAAACCTCCCCG
GAACCCAAAGGAACCATGATCAGCGGGTGGCTCTTTTCCGTTACTTGGCTATTGGCTGTTACGTGCGCGCTGC
TACCGTGGGTGCTGCTGCATGGTGGTTTCAATTGCTGCTGACGGTGGTCCAAGAGTGTCTTCTACCAGCTGAGTCA
TTTCTTACAGTGTAAGAGGACAACCCGGACTTTGAAGGCGTGGATTGTGCAATCTTTGAATCCCCATACCCGAT
GACAATGGCGCTCTCTGTTCTAGTAACTATAGAAATGTGTAACGCCCTCAACAGCTTGTCCGAAAACAGTCCCTT
GCTGAGGATGCCCCCTGGGAGAACATCTGGCTCGTGGGCTCCATCTGCCTGTCCATGTCACTCCACTTCTGAT
CCTCTATGTCGAACCCCTTGCCACTCATCTCCAGATCACACCGCTGAACGTGACCCAGTGGCTGATGGTGCTGAA
AATCTCCTTGCCCGTGATTCTCATGGATGAGACGCTCAAGTTTGTGGCCCGCAACTACCTGGAACCTGGTAAAGA
GTGTGTGCAGCCTGCCACCAAATCCTGCTCGTTCTCGGCATGCACCGATGGGATTTCTGGCCGTTTGTGCTGCT
CATAATGCCCCCTGGTGATCTGGGTCTATAGCACAGACACTAACTTTAGCGATATGTTCTGGTCT**TG**ACTGACAGT
TTTCCATAAAGAAGATGTTTAACTTAATCAATTAATTTTTTTTATTGTTTAAAGCAACTGTCTATTTCTGCTGAAT
TTTACATGAACATACTGGCTGGTGATGGAGGTTTCACTCTAGATTTTGTGTTTGGCTTTTTTCTGACTCCAGTGG
GGCAAGATTTTCTTTTTTATACATAAATTAAGTGTCCATTGACATGTACAGAGAACTAACACTATTTTATGC
AAATATTTTTTTGTAGATGAAAAAGCATGTACAGTGTCTGTTTAATACTCATCCTTGTATAAAAAAATAGTTG

1571/2825
FIGURE 1398B

AGCCAGCAGACATTGTCAGCAAATTAATTGGCAGCAGATTTTAGGAAATGAATGTGTGTGGTTTTTTTTCTAAAA
CTAAATAGCATGTATTGTGTCTTTTGCATGATGATCCGGATTTAATTTGATATCACAGTCTAATTTTTATTCTATA
AGCCAATTTTTCTGCACTGAGCAGAGTCTTGCTACCTCAGTCAGTATTGTTTTGGTTTGCTACTTCCCTCACCCA
CTTTGGCCTCCGTTACCCCCACCCACCCACCTCTCCCCACCTTACCCCGCCCCGCTTGGCTTCTTCTTTAGG
ATTGTGATGGTTCGTTCTGTTTACATCAGTTTTAACGAGAGGTATGCCTGTACTCGCTTGTGCAGAAAACATTGT
TCCAGATTCAATCGACTGGGTTTATGTCCCTTCACATAGTTTTTAAGGTTATTTATTTAAATGTCATATGTATTT
TATTGTAACAGACATTGTTTTGCCAACATTGCCTATTTTCAGTGGCACGTCATCTAGTTTTTAAAAAATAAAACAT
TTTAAAAAG

1572/2825
FIGURE 1399

MENAHTKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLLELVIEQFEDLLVRILLILAACISFVL
AWFEEGETITAFVEPFVILLILVANAIVGWQERNAENAIEALKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDI
VEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVA
TGVNTEIGKIRDEMVAEQERTPLQOKLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAIYYFKIAV
ALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQMSVCRMFIIDRVEGD
TCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDALDYNEAKGVYEKVGAEATETALTCLVE
KMNVFDTELKGLSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMSKMFVKGAPEGVIDRCT
HIRVGSTKVPMTSGVKQKIMSVIREWGS GSDTLRCLALATHDNPLRREEMHLED SANFIKYETNLTFVGCVGMLD
PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKAFTGREFDELNPSAQORDACLNARCF
ARVEPSHKSKIVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMGSGTAVAKTASEMVLADDNFSTIVA AVEEGR
AIYNNMKQFIRYLISSNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMNKPPRNPKE
PLISGWLFFRYLAIGCYVGAATVGAAAWWFIAADGGPRVSFYQLSHFLQCKEDNPDFEGVDCAIFESPYPMTMAL
SVLVTIEMCNALNSLSENQSLRMPPWENIWLVGSI CLSMLHFLILYVEPLPLIFQITPLNVTQWLMVLKISLP
VILMDETLKFVARNYLEPGKECVQPATKSCSFSACTDGISWPFVLLIMPLVIWVYSTDTNFS DMFWS

1573/2825
FIGURE 1400

AACCGCATCTGCAGCGAGCAACTGAGAAGCCAAGACTGAGCCGGCGGCCGCGGCGCAGCGAACGAGCAGTGACCG
TGCTCCTACCCAGCTCTGCTTCACAGCGCCACCTGTCTCCGCCCCCTCGGCCCCCTCGCCCCGGCTTTGCCTAACCG
CCACGATGATGTTCTCGGGCTTCAACGCAGACTACGAGGCGTCATCCTCCCGCTGCAGCAGCGCGTCCCCGGCCG
GGGATAGCCTCTCTTACTACCACTCACCCGCAGACTCCTTCTCCAGCATGGGCTCGCCTGTCAACGCGCAGGACT
TCTGCACGGACCTGGCCGTCTCCAGTGCCAACTTCATTCCCACGGTCACTGCCATCTCGACCAGTCCGGACCTGC
AGTGGCTGGTGCAGCCCCGCCCTCGTCTCCTCTGTGGCCCCATCGCAGACCAGAGCCCCCTCACCCTTTCGGAGTCC
CCGCCCCCTCCGCTGGGGCTTACTCCAGGGCTGGCGTTGTGAAGACCATGACAGGAGGCCGAGCGCAGAGCATTG
GCAGGAGGGGCAAGGTGGAACAGTTATCTCCAGAAGAAGAAGAGAAAAGGAGAATCCGAAGGGAAAGGAATAAGA
TGGCTGCAGCCAAATGCCGCAACCGGAGGAGGGAGCTGACTGATACTCCAAGCGGAGACAGACCAACTAGAAG
ATGAGAAGTCTGCTTTGCAGACCGAGATTGCCAACCTGCTGAAGGAGAAGGAAAACTAGAGTTCATCCTGGCAG
CTCACCGACCTGCCTGCAAGATCCCTGATGACCTGGGCTTCCAGAAGAGATGTCTGTGGCTTCCCTTGATCTGA
CTGGGGGCTGCCAGAGTTGCCACCCCGAGTCTGAGGAGGCCCTTACCCTGCCTCTCCTCAATGACCTGAGC
CCAAGCCCTCAGTGAACCTGTCAAGAGCATCAGCAGCATGGAGCTGAAGACCGAGCCCTTTGATGACTTCCTGT
TCCCAGCATCATCCAGGCCAGTGGCTCTGAGACAGCCCGCTCCGTGCCAGACATGGACCTATCTGGGTCCTTCT
ATGCAGCAGACTGGGAGCCTCTGCACAGTGGCTCCCTGGGGATGGGGCCCATGGCCACAGAGCTGGAGCCCCCTGT
GCACTCCGGTGGTCACCTGTACTCCAGCTGCACTGCTTACACGTCTTCTTCGTCTTACCTACCCCGAGGCTG
ACTCCTTCCCCAGCTGTGCAGCTGCCCACCGCAAGGGCAGCAGCAGCAATGAGCCTTCTCTGACTCGCTCAGCT
CACCCACGCTGCTGGCCCTGTGAGGGGGCAGGGAAGGGGAGGCAGCCGGCACCCACAAGTGCCACTGCCCCGAGCT
GGTGCATTACAGAGAGGAGAAACACATCTTCCCTAGAGGGTTCCTGTAGACCTAGGGAGGACCTTATCTGTGCGT
GAAACACACCAGGCTGTGGGCCTCAAGGACTTGAAAGCATCCATGTGTGGACTCAAGTCCTTACCTCTTCCGGAG
ATGTAGCAAAACGCATGGAGTGTGTATTGTTCCCAGTGACACTTCAGAGAGCTGGTAGTTAGTAGCATGTTGAGC
CAGGCCTGGGTCTGTGTCTCTTTTCTCTTCTCCTTAGTCTTCTCATAGCATTAATAATCTATTGGGTTCATTA
TTGGAATTAACCTGGTGCTGGATATTTTCAAATTGTATCTAGTGCAGCTGATTTTAAACAATAACTACTGTGTTCC
TGGCAATAGTGTGTTCTGATTAGAAATGACCAATATTATACTAAGAAAAGATACGACTTTATTTTCTGGTAGATA
GAAATAAATAGCTATATCCATGTACTGTAGTTTTTCTTCAACATCAATGTTTATTGTAATGTTACTGATCATGCA
TTGTTGAGGTGGTCTGAATGTTCTGACATTAACAGTTTTTCCATGAAAACGTTTTTATTGTGTTTTTAATTTATTTA
TTAAGATGGATTCTCAGATATTTATATTTTATTTTATTTTTTCTACCTTGAGGTCTTTTGACATGTGGAAAGT
GAATTTGAATGAAAAATTTAAGCATTGTTTGCTTATTGTTCCAAGACATTGTCAATAAA

1574/2825
FIGURE 1401

MMFSGFNADYEASSSRCSSASPAGDSLSEYYHSPADSFSSMGSPVNAQDFCTDLAVSSANFIPTVTAISTSPDLQW
LVQPALVSSVAPSQTRAPHFPGVPAPSAGAYSRAGVVKMTGGRAQSIGRRGKVEQLSPEEEEKRRIRRERNKMA
AAKCRNRRRELTDTLQAETDQLEDEKSALQTEIANLLKEKEKLEFILAHRPACKIPDDLGFPEEMSVASLDLTG
GLPEVATPESEEAFTLPLLNDPEPKPSVEPVKSISSMELKTEPFDDFLFPASSRPSGSETARSVPMMDLSGSFYA
ADWEPLHSGSLGMGPMATELEPLCTPVVTCTPSTAYTSSFVFVTYPEADSFPSCAAHRKGSSSNEPSSDSLSSP
TLLAL

1575/2825
FIGURE 1402

GGGCACGAGGGCAGAGCCAGTTCCTAGCGCAGAGCCGCGCCCGCC**ATG**AGGGAGATCGTGACATCCAGGCGGGC
CAGTGCGGGAACCAGATCGGCACCAAGTTTTGGGAAGTGATCAGCGATGAGCACGGCATCGACCCGGCCGGAGGC
TACGTGGGAGACTCGGCGCTGCAGCTGGAGAGAATCAACGTCTACTACAATGAGTCATCGTCTCAGAAATATGTG
CCCAGGGCCGCCCCTGGTGGACTTAGAGCCAGGCACCATGGACAGCGTGCGGTCTGGGCCTTTTGGGCAGCTTTTC
CGGCCTGACAACTTCATCTTTGGCCAGACGGGTGCAGGGAACAACCTGGGCGAAAGGGCACTACACGGAGGGCGCG
GAGCTGGTGGACGCAGTGCTGGACGTGGTGCAGGAAGGAGTGCGAGCACTGCGACTGCCTGCAGGGCTTCCAGCTC
ACGCACTCGCTGGGCGGGCGGCACGGGCTCAGGCATGGGCACGCTGCTCATCAGCAAGATCCGTGAGGAGTTCCTCG
GACCGCATCATGAACACCTTCAGCGTCATGCCCTCGCCCAAGGTGTCGGACACGGTGGTGGAGCCCTACAATGCC
ACACTGTGCGGTGCACAGCTGGTGGAGAATACAGACGAGACCTACTGCATCGACAACGAGGCGCTCTATGACATC
TGCTTCCGCACTCTGAAGCTGACAACGCCCCACCTACGGGGACCTCAACCACCTGGTGTCCGCCACCATGAGTGGG
GTCAACACCTCGCTGCGCTTCCCGGGCCAGCTCAATGCTGACCTGCGCAAGCTGGCGGTGAACATGGTGCCTTC
CCGCGCTGCACTTCTTCATGCTGGCTTCGCGCCGCTCACCAGCCGCGGCAGCCAGCAGTACCGGGCCCTGACC
GTGCCCCGAGCTCACCAGCAGATGTTGACGCCAGGAACATGATGGCCGCTGCGATCCGCGCCATGGCCGCTAC
CTGACCGTGGCCACCGTGTTCCGCGGGCCCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGT
AAGAACAGCAGCTACTTCGTGGAGTGGATTCCCAACAACGTGAAGGTGGCCGTGTGCGACATCCCGCCCCGCGGC
CTGAAGATGGCCTCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTC
TCAGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTTCACGGGTGAGGGCATGGATGAAATGGAGTTCACCGAG
GCGGAGAGCAACATGAACGACCTGGTATCCGAGTACCAGCAGTACCAGGATGCCACCGCCAATGACGGGGAGGAA
GCTTTTGAGGATGAGGAAGAGGAGATCGATGGAT**TAGT**CGGAATAGAGCCGCCCAACTCAGATCCTACAACACGC
AAGTTCCTTCTTGAACCCTGGTGCCTCCTACCCTATGGCCCTGAATGGTGCCTGGTTTAATTGTGTTGGTGTGCG
GCCCCTCACAAATGCAGCCAAGTCATGTAATTAGTCATCTGGAACAAAGACTAAAAACAGCAGAGAATTGCGGGT
TCTACCCAGTCAGAAGATCACACCATGGAGACTTTCTACTAGAGGACTTGAAAGAGAACTGAGGGGCCACAAAAT
AAACTTCACCTTCCATTAAAGTGTTCAGCATGTCTGCAAATTAGGAGGGAGTTAGAAACAGTCTTTTTCATCCTT
TGTGATGAAGCCTGAAATTGTGCCGTGTTGCCTTATATGAATATGCAGTATGGGACTTTGAAATAATGATTCATA
ATAAAATACTAAACGTGTGTCTTCAAAAAAAAAAAAAAAAAAAAA

1576/2825
FIGURE 1403

MREIVHIQAGQCGNQIGTKFWEVISDEHGIDPAGGYVGDSALQLERINVYYNESSSQKYVPRAALVDLEPGTMDS
VRSGPFGQLFRPDNFIFGQTGAGNNWAKGHYTEGAELVDAVLDVVRKECEHCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEFDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTSLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDARNMM
AACDPRHGRYLTVATVFRGPMSMKEVDEQMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMASTFIGNSTAIQ
ELFKRISEQFSAMFRRKAFLHWFTGEGMDEMEFTEAESNMNDLVSEYQQYQDATANDGEEAFEDDEEEEIDG

1577/2825
FIGURE 1404

GAGGAGGCCCCGAGAGGAGTCGGTGGCAGCGGCGGCGGGACCGGCAGCAGCAGCAGCAGCAGCAGCAACC
ACTAGCCTCCTGCCCCGCGCGCTTGCGACGAGCCCCACGAGCCGCTCACCCCGCCGTTCTCAGCGCTGCCCCGACC
CCGCTGGCGCGCCTCCCGCCGAGTCCCGGCAGCGCCTCAGTTGTCTCCGACTCGCCCTCGGCCTTCGCGCAGC
GCAGCACAGCCGCACGCACCGCAGCACAGCACAGCCCAGGCATAGCTTCGGCACAGCCCCGGCTCCGGCT
CCTGCGGCAGCTCCTCTGGCACGTCCCTGCGCCGACATTCTGGAGGTTGGATGCTCTTGTTCCAAAAATCAACTCGC
TTGCCACCTGCGCGCCGCGCCCTGCAACGACCTGCACGCCACCAAGCTGGCGCCCCGGAAGGAGAAGGAGCCCC
TGGAGTCGCAGTACCAGGTGGGCCCCGCTACTGGGCAGCGGCGGCTTCGGCTCGGTCTACTCAGGCATCCGCGTCT
CCGACAACCTTGCCGGTGGCCATCAAACACGTGGAGAAGGACCGGATTTCGACTGGGGAGAGCTGCCTAATGGCA
CTCGAGTGCCCATGGAAGTGGTCCTGCTGAAGAAGGTGAGCTCGGGTTTCTCCGGCGCTCATTAGGCTCCTGGACT
GGTTCGAGAGGCCCCGACAGTTTCGTCTGATCCTGGAGAGGCCCCGAGCCGGTGCAAGATCTCTTCGACTTCATCA
CGGAAAGGGGAGCCCTGCAAGAGGAGCTGGCCCGCAGCTTCTTCTGGCAGGTGCTGGAGGCCGTGCGGCACTGCC
ACAACTGCGGGGTGCTACACCGCGACATCAAGGACGAAAACATCCTTATCGACCTCAATCGCGCGAGCTCAAGC
TCATCGACTTCGGGTGCGGGGCGCTGCTCAAGGACACCGTCTACACGGACTTCGATGGGACCCGAGTGTATAGCC
CTCCAGAGTGGATCCGCTACCATCGCTACCATGGCAGGTGGCGGCAGTCTGGTCCCTGGGGATCCTGCTGTATG
ATATGGTGTGTGGAGATATTCCTTTCGAGCATGACGAAGAGATCATCAGGGGCCAGGTTTTCTTCAGGCAGAGGG
TCTCTTCAGAATGTCAGCATCTCATTAGATGGTGTCTGGCCCTGAGACCATCAGATAGGCCAACCTTCGAAGAAA
TCCAGAACCATCCATGGATGCAAGATGTTCTCTGCCCCAGGAACTGCTGAGATCCACCTCCACAGCCTGTGCG
CGGGGCCCCAGCAAATAGCAGCCTTTCTGGCAGGTCTCCCTCTCTTGTGATGCCCCGAGGGAGGGGAAGCTTC
TGTCTCCAGCTTCCCGAGTACCAGTGACACGTCTCGCCAAGCAGGACAGTGCTTGATACAGGAACAACATTTACA
ACTCATTCAGATCCAGGCCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTCTCCAGGGGTCTTAGGC
CTCAACTCCTCCCATAGATACTCTCTTCTCTCATAGGTGTCCAGCATTGCTGGACTCTGAAATATCCCGGGGGT
GGGGGGTGGGGGTGGGCAGAACCCCTGCCAATGGAACCTTTTCTTCATCATGAGTTCTGCTGAATGCCGCGATGGG
TCAGGTAGGGGGGAAACAGGTTGGGATGGGATAGGACTAGCACATTTTAAGTCCCTGTACCTCTTCCGACTCTT
TCTGAGTGCCTTCTGTGGGGACTCCGGCTGTGCTGGGAGAAATACTTGAACCTTGCTCTTTTACCTGCTGCTTCT
CCAAAAATCTGCCTGGGTTTTGTTCCTATTTTTCTCTCCTGTCTCCCTCACCCCTCCTTCATATGAAAGGTG
CCATGGAAGAGGCTACAGGGCCAAACGCTGAGCCACCTGCCCTTTTTTCTGCCTCCTTTAGTAAAACTCCGAGTG
AACTGGTCTTCTTTTTTGGTTTTTACTTAACTGTTTCAAAGCCAAGACCTCACACACACAAAAAATGCACAAAC
CAAGCAATCAACAGAAAAGCTGTAAATGTGTGTACAGTTGGCATGGTAGTATACAAAAAGATTGTAGTGATCTA
ATTTTTAAGAAATTTTGCCTTTAAGTTATTTTACCTGTTTTTGTCTTGTGTTTTGAAAGATGCGCATTCTAACCT
GGAGGTCAATGTTATGTATTTATTTATTTATTTATTTGGTTCCCTTCCTATTCCAAGCTTCCATAGCTGCTGCCC
TAGTTTTCTTTCTCCTTTCTCCTCTGACTTGGGGACCTTTTGGGGGAGGGCTGCGACGCTTGCTCTGTTTGTG
GGGTGACGGGACTCAGGCGGGACAGTGCTGCAGCTCCCTGGCTTCTGTGGGGCCCTCACCTACTTACCCAGGTG
GGTCCCGGCTCTGTGGGTGATGGGAGGGGCCATTGCTGACTGTGTATATAGGATAATTATGAAACACAGTTCTGG
ATGGTGTGCCTTCCAGATCCTCTCTGGGGCTGTGTTTTGAGCAGCAGGTAGCCTGCTGGTTTTATCTGAGTGAAA
TACTGTACAGGGGAATAAAAGAGATCTTATTTTTTTTTTATACTTGCCTTTGGAATAAAAACCTTTGGCTTT

1578/2825
FIGURE 1405

MLLSKINSLAHLRAAPCNDLHATKLAPGKEKEPLESQYQVGPLLGGGFGSVYSGIRVSDNLPVAIKHVEKDRI
DWGELPNGTRVPMENVLLKKVSSGFSGVIRLLDWFERPDSFVLILERPEPVQDLFDFFITERGALQEELARSFFWQ
VLEAVRHCHNCGVLHRDIKDENILIDLNRGELKLIDFGSGALLKDTVYTDGTRVYSPPEWIRYHRYHGRSAAV
WSLGILLYDMVCGDIPFEHDEEIIRGQVFFRQVRSSECQHILIRWCLALRPSDRPTFEEIQNHPWMQDVLLPQETA
EIHLSLSPGPSK

1579/2825
FIGURE 1406A

GAATTCCCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTCTCTTAAGAAAAGGAAAATA
TCCCAAGGACTAATCTGATCGGGTCTTCTTCATCAGGAACGAATGCAGGAATTTGGGAACTGAGCTGTGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAAGGAAGGAAAAAATACATAATTTTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATGGGGAGAAAAAAGATTTCAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGAGACGTTGAGAAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTGAGCTCACTGGGAAACC
CCAACCTATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGTAAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATATGCAAGCAAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCATTGG
CTACCCCACTGGTTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAAACACCGCCAGCGCTC
TTCACCTTGGTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCCTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCGTACGACGGGAGCGACCGAGAGGATCACCGGAACG
AATTCCACTCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTC
TATACCTTAATGGGGAAGGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAAAAAGTCAGGTACTCT
GTTTTGTAAAAGTACTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAAGGCTAACTTCTTTTCACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTATGTTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGAAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAAGAGGACCATA
CCTATTAAAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAATAAAAATATAAAAATATGTACATTACATTTTGCTTATTTTTCATATAAAAGGTAAGACAGAGTTTG
AAAGCATTTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCTGTAAAAAACCAAAAAGGACTTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTCTTTGTAGAAGTTTTGTTTTTGAATGTGTATTTCTAATTATATAAAAT
ATTAAGAAATCTTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTTGTTATCTTAATAGCGGGAGGGGGGTATATTTGTGCAGTTGCACATTTGAGTAACTATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAGGATAACCTGTGGGGTTA
GAACATATCATTGCAACACCCTAAATTGTTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTCTTTTCATGCTATTTTTATTTTGTTTTTTGCAATTTTATCAAATGCAGGGCCCCCTTTCTGATCT
CACCATTTACCATGCTCTTGAATTTCAGTAAGTGCATATCCTAAGTGCATATTTCTAAATCATCTGGTTGG
TTTTTCAGCCTAGAATTTGATACGCTTTTTAGAAAATATGCCCAGAATAGAAAAGCTATGTTGGGGCACATGTCCTG
CAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATTTCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAAATTATTTTA
ACTGACCCCTTGACAATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTGAGGACCCCAATGTCAC
TTCTGCATAAAGCATGTATGTCATCTATTTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCATA

1580/2825
FIGURE 1406B

AAGAACCTCTCTATGTCCCTTTTTTTAATTTAAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTTTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTGATTCTCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCA
AGTTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGTAGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCTTGTAATAATGTTTTATATATT

1581/2825
FIGURE 1407

MGRKKIQITRIMDERNRQVTFTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTDMDKVLLKYTEYNP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESSEDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHP SLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLNKNMQAKSPPPMNLGMNNRKPDLRVLIIPPGSKNTMP SVSEDVDLLL NQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLG SVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSDREDHRNEFHSPIGLT
RSPDERESPSVKRMRLSEGWAT

1582/2825
FIGURE 1408

ATAACGGTCCTAAGGTAGCGATATATATGTTTAAAAGATATTTTCAGTCTAGGAAAGATTTTCCTTCTCTTGGAAT
GTGAAGATCTGTCGATTTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAGATAT**TAGG**CAGTAATATCAA
CACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCATAGTTGCTATGTGTTTCTCA
TTGTAAAAGGCTGCCGCTGGGTGGCAGAAAGCCAAAGAGACCTTATTAAGTGGCTATATTTTTCTTAACTTGATCT
GAAATCCACAATTAGACCACAATGCACCTTGGTTGTATCCATAAAGGATGCTAGCCTGCCTTGTACTAATGNNNN
NNNNNNNNNNNNNNNNNNNNNTCTATCAACCATTTTCATATATATCCCACTACTCAAGGTATCCATGGAACATGAAAG
AATAACATTTTATGCAGAGGAAAAACAAAACATCCCTGAAAATATACACACTCATACACACACACGCACAGGGGA
ATAAAATAAGAAAATCATTTTCTCACCATAGACTTGATCCCATCCTTACAACCCATCCTTCTAACTTGATGTGT
ATAAAATATGCAAACATTTTCAAAATGTTCTTTGTCTATTTCAAATACTTTAGTATATCAATATCAGTAGATACC
AGTGGGTGGGAAAGGGTCATTACATGAAAATATGAAGAAATAGCCATATTAGTTTTTTAACCTGCAATTTGCCTC
AGCAACAAAGAAAAAGTGAATTTTTAATGCTGAAGATAAAGTAAGCTAAAGTACCAGCAGAAGCCTTGGCTATTT
ATAGCAGTTCTGACAATAGTTTTATAAGAACATGAAGAGAACAGAATCACTTGAAAATGGATGCCAGTCATCTCT
TGTTCCCACTACTGAATTTCTTATAAAGTGGTGGCAAGATAGGGAAGGGATAATCTGAGAATTTTTAAAAGATGAT
TTAATGAGAAGAAGCACAAATTTTGATTGTGATGAGTCACTTTCTGTAAACAATCTTGGTCTATCTTTACCCTTAT
ACCTTATCTGTAATTTACCATTTTATTGATTTGCAAAGCTAGTATGGTTTTTAATCACAGTAAATCCTTTGTATT
CCAGACTTTAGGGCAGAGCCCTGAGGGAGTATTATTTTACATAACCCGTCCTAGAGTAACATTTTAGGCAACATT
CTTCATTGCAAGTAAAGATCCATAAGTGGCATTTTACACGGCTGCGAGTATTGTTATATCTAATCCTATTTTAA
AAGATTTTTGGTAATATGAAGCTTGAATACTGGTAACAGTGATGCAATATACGCAAGCTGCACAACCTGTATATT
GTATGCATTGCTGCGTGGAGGCTGTTTTATTTCAACCTTTTTTAAAATTTGTGTTTTTTAGTAAATGGCTTATTTT
TTCCCAAAGGTGGAATTTAGCATTTTGTAATGATGAATATAAAAATACCTGTCATCCCCAGATCATTTAAAAGTT
AACTAAAGTGAGAATGAAAAAACAAATTCCAAGACACTTTTTTAAAAGAATGTCTGCCCTCACACACTTTTATGG
ATTTGTTTTTCTTACATACCCATCTTTTAACTTAGAGATAGCATTTTTTTGCCCTCTTTATTTTGTGTTTGTTC
TCCAGAGAGTAAACGCTTTGTAGTTCTTTCTTTAAAAAACATTTTTTTTAAAGAAGAAGAAGCCACTTGAAACCT
CAATAAAGGCTGTTGCCTAAGCATGGCATACTTCATCTGTTCTCATTGTGCCATCTGCCGTGATGTCGTCACTT
TTATGGCGTTAATTTCTGCCACTACAGATCTTTTGAAGATTGCTGGAATACTGGTGTCTGTTAGAATGCTTCAG
ACTACAGATGTAATTAAAGGCTTTTTCTTAATATGTTTTAACCAGATGTGGAGCAATCCAAGCCACATATCTTC
TACATCAAATTTTTCCATTTTGGTTATTTTCATAATCTGGTATTGCATTTTGCCTTCCCTGTTTCATACCTCAAAT
TGATTACATACCTCAGTTTAATTCAGAGAGGTCAGTTAAGTGACGGATTCTGTTGTGGTTTTGAATGCAGTACCAGT
GTTCTCTTCGAGCAAAGTAGACCTGGGTCACTGTAGGCATAGGACTTGGAATTGCTTCAGATGGTTTTGCTGTATCA
TTTTTCTTCTTTTTCTTTTCTGGGGACTTGTTTCCATTAAATGAGAGTAATTAAAATCGCTTGTAATGAGGGC
ATACAAGCATTTGCAACAAATATTCAAATAGAGGCTCACAGCGGCATAAGCTGGACTTTGTCGCCACTAGATGAC
AAGATGTTATAACTAAGTTAAACCACATCTGTGTATCTCAAGGGACTTAATTCAGCTGTCTGTAGTGAATAAAG
TGGGAAATTTTCAAAGTTTCTCCTGCTGGAAATAAGGTATAATTTGTATTTTGAGACAATTCAGTAAAGTTAC
TGGCTTTCTTAGTGATGCAGTGTCCTGCTGCATTTTTTTAAATTAATGTTTTGCTGTTTAAATTTATTCATTT
TATTGTGTTTTTTAAAAGCAGCTTATGCCACAAGCACAAATGAGCTTTCTCAGTTTTCAACTCAAAATATTATA
TGAAAAGATGG

1583/2825
FIGURE 1409

NGPKVAIYMFKRYFSLGKIFLLLECEDLSIHLQSYALTYTAKKI

1584/2825
FIGURE 1410

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTT
CGCGCGCCCCGTTTCAGCCATGTCGTCCGGCATCCATGTAGCGCTGGTGAAGGCAACAAGGGCATCGGCTTG
GCCATCGTGCGCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAG
GCGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGC
ATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGGCCTGGACGTGCTGGTCAACAACGCGGGCATCGCC
TTCAAGGTTGCTGATCCACACCCTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGA
GATGTGTGCACAGAATTACTCCCTCTAATAAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTC
AGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTG
GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGACCCAGAAGGAGGGCTGGCCAGCAGCGCATAC
GGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGAC
AAGATCCTCCTGAATGCCTGCTGCCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCA
GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTT
TCAGAGAAGAGAGTTGAACAGTGGTTGAGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCTG
AGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAATGATCTCTTATCAATTAGCA
CTCACTAATGTACTACTAATTGAGCAACCTACGCACTCAGTTGACTACGTAAATCTGTCAGGTCTTTTGTGATTT
CCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCT
TTATAAGTG

1585/2825
FIGURE 1411

MSSGIHVALVTGGNKGIGLAIVRDLCLRFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLEPPDAEGPHGQFVSEKRVEQW

1586/2825
FIGURE 1412

CGGGAGGTCAGAAAACCGGGCCGCGGGCGGCACCGACAGCTGGGGCCCGGGTCAGGGACACGCGGAGGTCAGGCC
GGTGAAGGCGGCAGGAAGCTGGAGCACGATCCCAGGAGGAACAATCCTGCACC**ATG**ACTCAACAGCCACTTCGAG
GAGTGACCAGCCTGCGTTTCAACCAAGACCAAAGCTGCTTTTGCTGCGCCATGGAGACAGGTGTGCGCATCTACA
ACGTGGAGCCCTTGATGGAGAAGGGGCATCTGGACCACGAGCAGGTGGGCAGCATGGGCTTGGTGGAGATGCTGC
ACCGCTCCAACCTTCTGGCCTTGGTGGGCGGTGGTAGTAGTCCCAAGTTCTCAGAGATCTCAGTGCTGATCTGGG
ACGATGCCCCGGGAGGGCAAGGACTCCAAGGAGAAGCTGGTGCTGGAGTTCACCTTCACCAAGCCAGTGCTTTCTG
TGCGCATGCGCCATGACAAGATCGTGATCGTGCTGAAGAACCGCATCTATGTGTACTCCTTCCCCGACAATCCCC
GAAAGCTGTTTGAGTTTGATACCCGGGACAACCCCAAGGGGCTCTGTGACCTCTGCCCCAGCCTGGAGAAGCAAC
TGCTAGTGTTCCCGGGACACAAGTGTGGGAGTCTGCAACTTGTGGACCTGGCGAGCACAAAGCCTGGCACCTCGT
CTGCTCCATTACGATCAATGCACATCAGAGTGACATAGCCTGTGTGTCTCTAAACCAGCCAGGCACTGTAGTGG
CCTCAGCCTCCCAGAAGGGTACCCTTATTTCGCTCTTTGACACACAATCCAAGGAGAACTGGTGGAGCTGCGCC
GAGGCACTGACCCTGCCACCCTCTACTGCATTAACCTTCAGCCACGACTCCTCCTTCCTCTGCGCTTCCAGTGATA
AGGGTACTGTCCATATCTTTGCTCTCAAGGATACCCGCCCTCAACCGCCGCTCCGCGCTGGCTCGCGTGGGCAAGG
TGGGGCCTATGATTGGGCAGTACGTGGACTCTCAGTGGAGCCTGGCGAGCTTCACTGTGCCTGCTGAGTCAGCTT
GCATCTGCGCCTTCGGTCGCAATACTTCCAAGAACGTCAACTCTGTTCATTGCCATCTGCGTAGATGGGACCTTCC
ACAAATATGTCTTCACTCCTGATGGAACTGCAACAGAGAGGCTTTTCGACGTGTACCTTGACATCTGTGATGATG
ATGACTTTT**TAA**GGACCCTGGGGGCTGTGCTAGGGACCTGCAGTGGCAGAACTGCAGAGCTGAGCCTTGGCAGTGG
GGCGTGCTTGGAAGCCACCAGCCAGCAAGCATTAAATGGGGCTGGTGCCCACTTTCCACTCAGCAGAGCTATGTCT
AAATAAAGAGCTCACTTCCCCCAGCACTTCTTGATGACTGTGTGCCCCAAGGGCCAGGCCAGAGACCCAGGAAG
GCAGCGACCCCTTGGGATCCCTAACCTGGAGGAAATTGCCAGGGACCCAGAGGGAGTGCCCTAATCCAACCTGGG
GATTTTTTTAAAAGCTTCCTAGGAAGAGATGATCTCCGATGTGATGAATACGAATAAAAGGCCCTTAATGGC

1587/2825
FIGURE 1413

MTQQPLRGVTSIRFNQDQSCFCCAMETGVRIYNVEPLMEKGHLDHEQVGSMLVEMLHRSNLLALVGGGSSPKFS
EISVLIWDDAREGKDSKEKLVLEFTFTKPVLSVRMRHDKIVIVLKNRIYVYSFPDNPRKLFEDTRDNPGLCDL
CPSLEKQLLVFPGHKCGLQLVDLASTKPGTSSAPFTINAHQSDIACVSLNQPGTVVASASQKGTILIRLFDTQSK
EKLVELRRGTDPATLYCINFSDSSFLCASSDKGTVHIFALKDTRLNRRSALARVGKVGPMIGQYVDSQWSLASF
TVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVF TPDGNCNREAFDVYLDICDDDDF

1588/2825
FIGURE 1414

ACGCCCTATACAACCTTGGCTTCACATACTTTTACACTAACTTTATATGATTTTTTAAAACTGGTCTGATCGGACT
TCTCGTCCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTTTGGGGAGAA
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGGGTTGGAACC**ATGT**GGAACCTT
TCTGGGCATTGCCACTTTACCTATTTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCCCT
GTTGTGCGTGCTGGTGTTCCCTCTCGCTGGGCCTGGTGCTCTCCTACCGCTGTGCGCCACCGAAACGGGGGTCTCCT
CGGGCGCCAGCGGAGCGGCTCCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTTCATTGGCTTCTT
CTGGGCCAAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGGGGCCAGGAGGCGCAGAAAAGGAACCAATAT
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGTAGCTGTGCTTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAG
AGACTTAAAAAGAGCCTGACAGAATAGTTGGAGAATTCTGTCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGG
TCTTGGAGATACAGTGGAAGGTCTTGATGCCAGGTTGTAAATGGTTACATGATTGATGATCAGGAAAGCAAATC
AGAGGTTTCAAGATTCTTACCCTCTGTGCAAAAACAATCAAGTGCAGAGTGGAAGAGCTTTCCATCACGGAAGATT
CATCATGAGTCTCCGGAAAGCAGCTATGGCAGAGCCCCAATGCAAAGTTTATTGAAGGTGTTGTGTTACAGTTATT
AGAGGAAGATGATGTTGTGATGGGAGTTTCACTACAAGGATAAAGAGACTGGAGATATCAAGGAACCTCCATGCTCC
ACTGACTGTTGTTGCAGATGGGCTTTTCTCCAAGTTTCAAGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATC
TCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTTATTTTAGCTAACC
GAGTCCAGTTCTCATCTACCGGATTTTATCCAGTGAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAAG
GAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAGC
CACTGACAATTCTCATCTGAGGTCCATGCTAGCAAGCTTCCTTCCTCCTTCATCAGTGAAGAAACGAGGTGTTCT
TCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAAA
ACTATGGAGAAAACCTGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGGCCAACAAATCATT
TTACTGGGCAAGAAAAACATCTCATTCTTTGTGCTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTTCTGC
CACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTGGTGGCGAATGTGTTGCGGG
TCCTGTTGGGCTGCTTTCTGTATTGTCTCCTAACCTCTAGCTTTAATTGGACACTTCTTTGCTGTTGCAATCTA
TGCCGTGTATTTTGTCTTAAGTCAGAACCTTGATTACAAAACCTCGAGCCCTTCTCAGTAGTAGTGCTGTATT
GTACAAAGCGTGTCTGTAAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTCA**TAA**AGCTTAAAGGGG
AACCATTTGTGAATGAATATTTGGAACCTACCAAGTCTTAAGAGACTTTTGGAAGAGGATATATATAGCATAGTA
CCATACCACTTATAAAGTGGAACCTCTGGACCAAGATTTGGATTAAATTTGTTTTTGAAGTTTTTGTATATAAA
TATGTAAATACATGCTTTAATTTGCAATTTAAAATGAAGGGTTAAATAAGTTAGACATTTGAAAGAAATGATTG
TTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTTG
GGACATGCAAATAAAATGAAGAATGAC

1589/2825
FIGURE 1415

MWTFGLGIATFTYFYKKFGDFITLANREVLLCVLVFLSLGLVLSYRCRHRNGGLLGRQRSGSQFALFSDILSGLPF
IGFFWAKSPPESENKEQLGARRRRKGTNISETSLIGTAACTSTSSQNDPEVIIVGAGVLGSALVAVLSRDGRKVT
VIERDLKEPDRIVGEFLQPGGYHVLKDLGLGDTVEGLDAQVVGMIHDQESKSEVQIPYPLSENNQVQS GRAFH
HGRFIMSLRKAAMAEPNAKFIEGVVLQLEEDDVVMGVQYKDKETGDIKELHAPLTVVADGLFSKFRKSLVSNKV
SVSSH FVGFLMKNA PQFKANHAELILANPSPVLIYRISSETRVLVDIRGEMPRNLREYMVEKIYPQIPDHLKEP
FLEATDNSHLRSMLASFLPPSSVKKRGVLLLGDAYNMRHPLTGGGMTVAFKDIKLWRKLLKGIPDLYDDAAIFEA
NKSFYWARKTSHSFVVNILAQALYELFSATDDSLHQLRKACFLYFKLGGECEVAGPVGLLSVLSPNPLALIGHFFA
VAIYAVYFCFKSEPWITKPRALLSSSAVLYKACSVIFPLIYSEMKYMH

1590/2825

FIGURE 1416

CAGCCTTATAAGCTGAGGGAGTGGAGAGGCCCGGGGCCAGGAAAGCAGAGACAGACAAAGCGTTAGGAGAAGAAG
AGAGGCAGGGAAGACAAGCCAGGCACG**ATG**GCCACCTTCCCACCAGCAACCAGCGCCCCCAGCAGCCCCCAGGC
CCGGAGGACGAGGACTCCAGCCTGGATGAATCTGACCTCTATAGCCTGGCCCATTCTACCTCGGAGGTGGAGGC
CGGAAAGGTCGCACCAAGAGAGAAGCTGCTGCCAACACCAACCGCCCCAGCCCTGGCGGGCACGAGAGGAACTG
GTGACCAAGCTGCAGAATTCAGAGAGGAAGAAGCGAGGGGCACGGCGCT**TG**AGACAGAGCTGGAGATGAGGCCAGA
CCATGGACACTACACCCAGCAATAGAGACGGGACTGCGGAGGAAGGAGGACCCAGGACAGGATCCAGGCCGGCTT
GCCACACCCCCCACCCTAGGACTTATTCCCGCTGACTGAGTCTCTGAGGGGCTACCAGGAAAGCGCCTCCAACC
CTAGCAAAAGTGCAAGATGGGGAGTGAGAGGCTGGGAATGGAGGGGCAGAGCCAGGAAGATCCCCCAGAAAAGAA
AGCTACAGAAGAAACTGGGGCTCCTCCAGGGTGGCAGCAACAATAAATAGACACGCACGGCAGCCACAGCTTGGG
TGTGTGTTATCCTTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1591/2825
FIGURE 1417

MATFPPATSAPQQPPGPEDEDSSLDESDLYSLAHSYLGGGGRKGRTKREAAANTNRPSPGGHERKLVTKLQNSER
KKRGARR

1592/2825
FIGURE 1418A

CTGAGGAACTTGGCTGTAACCTTCAAAAGAAGATTTGATTCTTTATTTCTGGACTGCATATATATATATAACAAG
GCCATTAAAATGTCGGGAGCCTCAGTGAAGGTGGCTGTCCGGTAAGGCCCTTCAATTCTCGAGAGACCAGCAAG
GAATCCAAATGCATCATTGAGATGCAAGGCAACTCGACCAGTATTATTAACCCAAAGAATCCAAAGGAAGCTCCA
AAGTCCTTCAGCTTCGACTATTCTACTGGTCTCATACCTCACCCGAAGATCCCTGTTTTGCATCTCAAAACCGT
GTGTACAATGACATTGGCAAGGAAATGCTCTTACACGCCTTTGAGGGATATAATGTCTGTATTTTTGCCTATGGG
CAGACTGGTGTGGAATCTTATACAATGATGGGTAAACAAGAAGAAAGCCAGGCTGGCATCATTCCACAGTTA
TGTGAAGAACTTTTTGAGAAAATCAATGACAACTGTAATGAAGAAATGTCTTACTCTGTAGAGGTGAGCTACATG
GAAATTTACTGTGAAAGAGTACGAGATTTGCTGAATCCAAAAACAAGGGTAATTTGCGTGTGCGTGAACACCCA
CTTCTTGGACCCTATGTGGAGGATCTGTCCAAGTTGGCAGTTACTTCCTACACAGACATTGCTGACCTCATGGAT
GCTGGGAACAAAGCCAGGACAGTGGCAGCTACAAACATGAATGAAACAAGTAGCCGTTCCACGCTGTGTTTACG
ATTGTTTTACCCAGAAGAAACACGATAATGAGACCAACCTTTCCACTGAGAAGGTCAGTAAATCAGCTTGGTG
GATCTAGCAGGAAGTGAACGAGCTGATTCAACTGGTGCCAAAGGGACTCGATTAAAGGAAGGAGCAAATATTAAT
AAGTCTCTTACAACCTTTGGGCAAAGTCATTTAGCCTTGGCCGAGGTGGATAACTGCACTAGCAAGAGTAAAAAG
AAGAAGAAAACAGATTTTATCCCTACAGGGATTCTGTACTTACTTGGCTCCTTCGAGAAAATTTAGGTGGCAAT
TCTCGGACTGCAATGGTTGCTGCTCTGAGCCCCGCGGATATCAACTACGATGAGACTTTGAGCACTCTGAGATAT
GCAGATCGTGCAAAACAAATTAATGCAATGCTGTTATCAATGAGGGCCCCAATGCCAAGCTGGTTCGTGAATTA
AAGGAGGAGGTGACACGGCTGAAGGACCTTCTCGTGCTCAGGGCCTGGGAGATATTATTGATATTGATCCACTG
ATCGATGATTACTCTGGAAGTGAAGCAAATATCTGAAAGATTTTCAGAACAATAAGCATAGATACTTGCTAGCC
TCTGAGAATCAACGCCCTGGCCATTTTTCCACAGCATCCATGGGGTCCCTCACTTCATCCCCATCTTCCTGCTCA
CTCAGTAGTCAGGTGGGCTTGACGTCTGTGACCAGTATTCAAGAGAGGATCATGTCTACACCTGGAGGAGAGGAA
GCTATTGAACGTTTAAAGGAATCAGAGAAGATCATTGCTGAGTTGAATGAAACTTGGGAAGAGAAGCTTCGTAAA
ACAGAGGCCATCAGAATGGAGAGAGAGGCTTTGTTGGCTGAGATGGGAGTTGCCATTGGGAAGATGGAGGAACC
CTAGGGGTTTTCTCACCTAAAAAGACCCACATCTTGTTAACCTCAATGAAGACCCACTAATGTCTGAGTGCCCTA
CTTTATTACATCAAAGATGGAATTACAAGGGTTGGCCAAGCAGATGCTGAGCGGCGCCAGGACATAGTGCTGAGC
GGGGCTCACATTAAAGAAGAGCATTGTATCTTCCGGAGTGAGAGAAGCAACAGCGGGGAAGTTATCGTGACCTTA
GAGCCCTGTGAGCGCTCAGAAACCTACGTAAATGGCAAGAGGGTGTCCCAACCTGTTTCAGCTGCGCTCAGGAAAC
CGTATCATCATGGGTAAAAACCATGTTTTCCGCTTTAACCCCGGAACAAGCACGAGCTGAGCGAGAGAAGACT
CCTTCTGCTGAGACCCCTCTGAGCCTGTGGACTGGACATTTGCCAGAGGGAGCTTCTGAAAAACAAGGAATT
GATATGAAACAAGAGATGGAGAAAAGGCTACAGGAAATGGAGATCTTATACAAAAAGGAGAAGGAAGAAGCAGAT
CTTCTTTTGGAGCAGCAGAGACTGGACTATGAGAGTAAATTCAGGCCCTTGCAAGCAGGTTGAAACCCGATCT
CTGGCTGCAGAAACAACGAAGAGGAGGAAGAAGAAGAAGATTCTTGACACAGCATGAATTTGAGTTGGCC
CAATGGGCCTTCCGGAATGGAAGTCTCATCAGTTTACTTCATTACGGGACTTACTCTGGGGCAATGCCGTGTAC
CTAAAGGAGGCCAATGCCATCAGTGTGGAAGTGAAGGAGGAGTGCAGTTTCAGTTTGTCTGCTGACTGACACA
CTGTACTCCCCTTTGCTCCTGAATTACTTCCCACTGAGATGGAAAAAACTCATGAGGACAGGCCTTCCCTCGC
ACAGTGCTAGCAGTAGAAGTCCAGGATTTGAAGAATGGAGCAACACACTATTGGTCTTTGGAGAACTCAAGCAG
AGGCTGGATTTGATGCGAGAGATGTATGATAGGGCAGGGGAGATGGCCTCCAGTGCCCAAGACGAAAGCGAAACC
ACTGTGACTGGCAGCGATCCCTTCTATGATCGGTTCCACTGGTTCAAACCTGTGGGGAGCTCCCCATTTCCAC
GGCTGTGTGAACGAGCGCTTGCCGACCGCACACCTCCCCACTTTTTCCACGGCCGATTCCGACATCACTGAG
CTGGCTGACGAGCAGCAAGATGAGATGGAGGATTTTGATGATGAGGCATTCGTGGATGACGCCGGCTCTGACGCA
GGGACGGAGGAGGATCAGATCTCTCAGTGACGGGCATGACCCGTTTTACGACCGATCCCTTGGTTCAATTTA
GTGGGAAGGGCATTGTTTACCTGAGCAATCTGCTGTATCCCGTGCCCCGATCCACAGGGTGGCCATCGTCAGT
GAGAAAGGTGAAGTGCAGGGGATTTCTGCGTGTGGCTGTACAGGCCATCGCAGCGGATGAAGAAGCTCCTGATTAT
GGCTCTGGAATTCGACAGTCAGGAACAGCTAAAATATCTTTTGATAATGAATACTTTAATCAGAGTGACTTTTCG
TCTGTTGCAATGACTCGTTCGGTCTGTCCTTGGAGGAGTTGAGGATTGTGGAAGGACAGGGTCAGAGTTCTGAG
GTCATCACTCCTCCAGAAGAAATCAGTCGAATTAATGACTTGGATTTGAAGTCAAGCACTTTGCTGGATGGTAAG
ATGGTAATGGAAGGGTTTTCTGAAGAGATTGGCAACCACCTGAAACTGGGCAGTGCCTTCACTTTCCGAGTAACA
GTGTTGACAGGCCAGTGAATCCTCCAGAGTATGCAGATATCTTCTGTCAGTTCAACTTTTTGCATCGCCATGAT
GAAGCATTCTCCACGGAGCCCTCAAAAACAATGGCAGAGGAAGTCCCTGGCCTTTTATCATGTGCAGAATATT

1593/2825
FIGURE 1418B

GCAGTGGAGATCACTGAATCATTTGTGGATTACATCAAAACCAAGCCTATTGTATTTGAAGTCTTTGGGCATTAT
CAGCAGCACCCACTTTCATCTGCAAGGACAGGAGCTTAACAGTCCGCCTCAGCCGTGCCGCCGATTCTTCCCTCCA
CCCATGCCACTGTCCAAGCCAGTTCCAGCCACCAAGTTAAACACGATGAGCAAAACCAGCCTTGGCCAGAGCATG
AGCAAGTATGACCTCCTGGTTTGGTTTGGATCAGTGAAGTGGAGCCTACAGGAGAGTATATCCAGCTGTGGTT
GACCACACAGCAGGCTTGCCTTGGCAGGGGACATTTTTGCTTCATCAGGGCATCCAGCGAAGGATCACAGTGACC
ATTATCCATGAGAAGGGGAGCGAGCTCCATTGGAAAGATGTTCTGTAAGTGGTGGTAGGTCGTATTCCGAATAAG
CCTGAGGTGGATGAAGCTGCAGTTGATGCCATCCTCTCCCTAAATATTATTTCTGCCAAGTACCTGAAGTCTTCC
CACAACCTCTAGCAGGACCTTCTACCGCTTTGAGGCTGTGTGGGATAGCTCTCTGCATAACTCCCTTCTTCTGAAC
CGAGTGACACCCTATGGAGAAAAGATCTACATGACCTTGTCTGGCCTACCTAGAGCTGGATCATTGCATCCAGCCG
GCTGTCATCACCAAGGATGTGTGCATGGTCTTCTACTCCCAGATGCCAAGATCTCACCACCACGCTCTCTGCGT
AGCCTCTTTGGCAGCGGCTACTCAAAGTCACCAGATTGCAATCGAGTCACTGGCATTACGAACCTCAGCTTATGC
AAAATGTCAGACACAGGTAGTCCAGGTATGCAGAGAAGGAGAAGAAAATCTTAGATACGTCAGTGGCATATGTG
CGGGGAGAAGAGAACTTAGCAGGCTGGCGGCCCGTGGAGACAGCCTCATCCTTGAGCACCAGTGGGAGCTGGAG
AAGCTGGAGCTCCTACATGAGGTGGAAAAAACCCGCCACTTTTTGCTGCTGCGTGAGAGACTTGGTGACAGCATC
CCCAAATCCCTGAGCGACTCGTTATCCCCAGCCTCAGCAGTGGGACCCTCAGCACCTCCACCAGTATCTCCTCT
CAGATCTCAACCACTACCTTTGAAAGCGCCATCACACCTAGCGAGAGCAGTGGCTATGATTACAGGAGACATCGAA
AGCCTGGTGGACCGAGAGAAAGAGCTGGCTACCAAGTGCCTGCAACTTCTCACCACACTTTCAACAGAGAATTC
AGCCAGGTGCACGGCAGCGTCAGTGACTGTAAGTTGTCTGATATCTCTCCAATTGGACGGGATCCCTCTGAGTCC
AGTTTCAGCAGTGCCACCCTCACTCCCTCCTCCACCTGTCCCTCTCTGGTAGACTCTAGGAGCAACTCTCTGGAT
CAGAAGACCCCAAGCCAATTCCCGGGCCTCTAGTCCCTGCCCAGAATTTGAACAGTTTCAGATTGTCCCAGCT
GTGGAAACACCATATTTGGCCCGAGCAGGAAAAACGAATTTCTCAATCTTGTTCCAGATATTGAAGAAATTAGA
CCAAGCTCAGTGGTCTCTAAGAAAGGATACCTTCATTTCAAGGAGCCTCTTTACAGTAACTGGGCTAAACATTTT
GTTGTCTGTCGGTTCGGCCTTATGTCTTCATCTATAACAGTGACAAAGACCCTGTGGAGCGTGGAATCATTAACTG
TCACAGCACAGGTGGAGTACAGTGAGGACCAGCAGGCCATGGTGAAGACACCAACACCTTTGCTGTCTGCACA
AAGCACCGTGGGGTCTTTTGCAGGCCCTCAATGACAAAGACATGAACGACTGGTTGTATGCCTTCAACCCACTT
CTAGCTGGCACAATACGACCAGGTCTCTGGCTTCCGAGATCATCAGAGAAGATAAGTCTGTCTCTTTACAGCTGC
CAGTAAAGTTTTCCAGGATGAGAGGGGAAAAAGAAAGCCTCCAGTGACTTCAGTTGCTTTGCCAGTTGTCTTGGGA
TTGTTTTACACCATCCTTTACTTCCCTTGCTCAGACCTCTCTGTTTACCATTGCTCAGGCATTCAGGAAAGTAT
CTGCTCACTCCCACTTGGTGAGTCTCGGCCCTTGAGGTTGCTGACTCTCAGGCGTTAGGCAGCTGGATGACTTCC
CGCTTCACGCAGCAAAGGCCAGGGGCTTGC CGCCCTCTGCAGAGTTGTTGCTAGGGAGACTTGTGTCTCATCCA
CAACCTTGTTTTCTCACTTCCCTGGTTGGGCTCATCTCTGAAGAACAGGTCTCCAGCTTCGCTCCTTATCACTGCA
TTGTGAAGAGGAGGAAAAGTGAATCACGGAGAGAGAAAGGAAAGGATAGAATCACAGGCTGCGTCTGCACCTGAA
AAGTGACCCGCGGAACTCTATGGCGGATTTTTTTTTTAACTTTCTTCTTCTGTTAAACATAGGTCCTAACT
GTGATGTTATTTGTTTTCTAAGTGGTATGTGAGATTTCTAATGTAGTTAGAAGTTTCATTGTCTGATGGACACA
ATATGCCCTTCCGGTCTATTCAAACCAGCAGGATCTGTCTGGTGCTTAGAGATGGCTGCCTGGACTGGAATCAAA
TCTAATTCAGGGAAATGAAGATGGAATTTGAAGGTCACTTTTAAATTAAGTCATTGATGCTGTCTGTTACAGAG
TGTGACAGAGGATCCATGTCTGTGACACAGGACGGTGGGAAGCCTGAGAGAGAGTGAAATTATGTGATACACTGA
AATGACTTTTGTTTTCTTCTAACTCATACAAAACCTGGTTTGGAAAGTCTTTGCTTTGGAAGCGTCAGACATTAG
AACAGGCCAAACTGGACTGTCTGTTTCATAGCGTGCCTGAATAAGAAGGCCTCTTAGGGAGCCAGAGGGAGCAGAG
TGGTCGTGTCTGCGTGTCTTACCCCTCTGGGGCGCCCTGTGCGGCTGGCAGGTGCAGACAGCCTTTGCTGG
TCCCCAGCACGTCCAGGGTGGGTGCTCCCTTGCCCCGACAGAACCATCCCCACTGTGAGGCTGTGAGAGATTTGTG
GCAGGAAGTGTATGAGGCTCTAGTTGTTGCTGTTGTGGCGGGAAAGTTAAGAAACATAGCCCTTAAGGAAACC
ACCTTTATGTATTTTCTTAAAGCACGCCTTTAAATAAGCAAAAACCTTTAAAGGCAGGAAAGAGAATTCCTTAGGC
AAATTCAGAGAAATAAGTGCTAGTTAATACTAATCACCTCCTCCTCTGTCTCTCATCCTCCTTTCTCCCATCAAA
GCAAAATATGGCCTCACCACCAGCCCCAAATCAGTGCTCAGACCCCTCTGTGTCTGTGTGCCCTCCTGGGAGTC
AGTCAGCGCTCAGGCCAGGACTGTGCAGGGCCAGCCAGCCCCATGCGCTAGTCAGGAGCACAGGCAAGGGGTGCTT
GTGGCAGTGGCCGGGCACCTGAGCCCCAGCTCGTTGTTAAACGTGCTGACGGCAAGGGGCAATGGAGTGAGTTTC
CCAATAAGAAACCACTATTATATATTTTTTCCCTTCAGTCACATAGACTTCAGACAACCTCTCTATTTTTTATG

1594/2825
FIGURE 1418C

GATTTTTCAGCTCATTTCAGATGAAGGAACTAAGTCATTGTGAACTGTCTCTTGAGATCTAAAAACAAGATGACT
TTTCCTGGCACATATTCCAAAGCAAAGACTTTGTTGCCTGCTGCTTATTGTCTAATTTACAGGGATATTTAATTT
TGTCAGGTCTATGTATATTTATCCAGCTATACTTACTTGACACAGTGGATTGGAGAGAAAAGGATTCTCCAGTGTGC
ACACTCATCGGTACTCTTTCTGCATTTCCCTCGTGCTGTGTCCCGCTCGGGTTCCAATGGACAGTATCAGGGCTT
GTTTGACTTAGGTCTTTCCAGTTTTCTTTTCGGTTCCCTTTTAAAAATGTGATTGTTAACCTGCCTCTTGAAAGAT
TCAACCGGGTGTGGTGGCTCACGCCTGTAATCCAGCACATTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCA
GAAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAGGTAGCCAGGCGTGGT
GGCGTGTGCCGTGTGGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCTTGAACCTGGGAGGTGGAGGCTGC
AGTGAGTTGAGACTGCGCCATTGCACTCCAGCCTGGGTGACAAAGCAGGACTCCGTCTCAAAAAAAAAAGAAAAGA
TTCATGATGCTGCTGCTCCCAGAAGGTTTGCTGGATGTGTTTACATAGGACTCTAACTTGTGTGCACTACAGTTG
TTCACCAGGGCCAGTGATTACCCCAGTGTGTGGCCAGACCATGACTGTGTAGCAGGAATGTTTTAATTTGTGCT
TCCTTAGTAAATTGAAATATCAGCTGAGAGATTATTTGCTGCTGTTATTCAAAGGCCATTTATGAAGTTAGTAT
TTGAGCCCCATAAGATCTTTAAAAAGCCTCCAATCATTTAAAGGAAGAAATCAGAGTTGCTATAAAATTCAGTAA
AAAGCTCATAGCCAAACGGCTGTGCTCAGATGGAAAGTCTGAGCTGAGGTTGGTCTCTTGCCAAACCGTGGCTGT
TGTGTGTTGTTCTTCATGCTTTCGAGTTCATTTTTTTTCATTCTGCCTATTCTGGCATCAGCTCACTTGAGGAGT
CCCTCAGCCTTCTTGATTTAAGGCATCGTCTTAGACTTTGTGGCTCTAAAGTACCTGTCTGTTGAGATTTCAAG
TCTCTTGTCACCATCCTCACACATGACAACAAAACCCATAATGCATAAGTGGCCTTTTTGAACCAAGACTTTGCA
AACTGATCTCTCCCCCGTGAAGGAGTTGAGCACATTAGCAACAATGTACATTAATTTTGGATTTTCATTTTCATG
TTTTATTTTGTAATATTATCTGATGTTTGGAGCTTGAGTATACAGACTGTAAATATAGTTCTTGATTTGTACT
AATTCTGATTCTTTTGCTGTATAGCCTTAGATGTGCAATGCAGACACTATCTAACTGTGTGTGGTAACCTTGCGT
CACGGAGCTGTTAGTGAACGAGGTAAAAATAATAAAGGTACAGCCAGTGCAAAAAAAAAAAAAAAAAAAAAAAAAA

A

1595/2825
FIGURE 1419

MGSLTSSPSSCSLSSQVGLTSVTSIQERIMSTPGGEEAIERLKESEKIIAELNETWEEKLRKTEAIRMEREALLA
EMGVAIREDGGTLGVFSPKKTPHLVNLNEDPLMSECLLYYIKDGITRVGQADAERRQDIVLSGAHIKEEHCFRS
ERSNSGEVIVTLEPCERSETYVNGKRVSQPVQLRSGNRIIMGKNHVFRFNHPEQARAEREKTPSAETPSEPVDWT
FAQRELLEKQGIDMKQEMEKRLQEMEILYKKEKEEADLLEQQRLDYESKLQALQKQVETRSLAAETTEEEEEEE
EVPWTQHEFELAQWAFRKWKSHQFTSLRDLLWGNVYLKEANAI SVELKKKVQFQFVLLTDTLYSPLPPELLPTE
MEKTHEDRPFPRTVVAVEVQDLKNGATHYWSLEKLRQRLDLMREMYDRAGEMASSAQDESETTVTGSDPFYDRFH
WFKLVGSSPIFHGCVNERLADRTSPSTFSTADSDITELADEQQDEMEDFDDEAFVDDAGSDAGTEEGSDLFSDGH
DPFYDRSPWFILVGRAFVYLSNLLYPVPLIHRVAIVSEKGEVRGFLRVAVQAIAADEEAPDYGSGIRQSGTAKIS
FDNEYFNQSDFFSSVAMTRSGLSLEELRIVEGQGQSSEVITPPEEISRINDLDLKSSTLLDGKVMMEGFSEEIGNH
LKLGSATFRVTVLQASGILPEYADIFCQFNFLHRHDEAFSTEPLKNNGRGSPLAFYHVQNIAVEITESFVDYIK
TKPIVFEVFGHYQQHPLHLQGQELNSPPQPCRRFFPPPMPLSKPVPATKLNTMSKTSLGQSMSKYDLLVWFEISE
LEPTGEYIPAVVDHTAGLPCQGTFLHQQGIQRRITVTIIEHEKGSELHWKDVRELVVGRIRNKPEVDEAAVDAILS
LNIISAKYLNKSSHNSRRTFYRFEAVWDSSLHNSLLNLRVTPYGEKIYMTLSAYLELDHICIQPAVITKDVCVMFY
RDAKISPPRSLRSLFGSGYSKSPDSNRVTGIYELSLCKMSDTGSPGMQRRRRKILDTSVAYVRGEENLAGWRPRG
DSLILEHQWELEKLELLHEVEKTRHFLLRERLGD SIPKSLSDSLSPSLSSGTLSTSTSISSQISTTTFESAITP
SESSGYDSGDIESLVDREKELATKCLQLLTHTFNREFSQVHGSVSDCKLSDISPIGRDPSESSFSATLTPSSTC
PSLVDSRSNSLDQKTPEANSRASSPCPEFEQFQIVPAVETPYLARAGKNEFLNLVPDIEEIRPSSVVS KGYLHF
KEPLYSNWAKHFVVRRPYVFIYNSDKDPVERGIINLSTAQVEYSEDQQAMVKTPNTFAVCTKHRGVLLQALNDK
DMNDWLYAFNPLLAGTIRPGHLASEI IREDKSVSFSQ

1596/2825
FIGURE 1420A

GGCGGCTGTCGCGGGGACCGGAGGCGGAGGCTGCAGCGGGCACTGCGGCGCCGAGGCGGGCGGCAGGACGGGAA
CCACGCGAGCTGCAGCCAGCTAGGTCTTGACTCCACTAACGGGGACTTCTCATACGGCTTTGAACTTGGACCTTG
GTGCATAAGCAAATGTAATCAGCGAATTGTAATGGAAAGCATATGGACAGGTCTACGCCACATCACTTAGGTGC
TAAGAGATGCCGTTTGCAGGCCTCATCTCTGCTTGAGAATCGGGGGCTCCAGGCACTAGAAGAGCCGGCTGATCC
TGGGCTCCTAGCTTGAATAAGCCTTCACTTCCAGCTGCTCTCCCCAACGGCTGTGTAACTACTCGTTTCTCTTA
ATGATGGGTATTGGTAAGAATAACCACATCCAAATCAATGGAGGCTGGAAGTTCAACAGAAGGCCAAATACGAAGAC
GAGGCAAAGCACCCAGCTTTCTTCACTCTTCCGGTGGTGATAAATGGAGGCGCCACCTCCAGCGGTGAGCAGGAC
AATGAGGACACTGAGCTCATGGCGATCTACACTACGGAAAACGGCATTGCAGAAAAGAGCTCTCTCGCTGAGACC
CTGGATAGCACTGGCAGTCTGGACCCCCAGCGATCAGACATGATTTATACCATAGAAGATGTTCCCTCCCTGGTAC
CTGTGTATATTTCTGGGGCTACAGCACTACCTGACATGCTTCAGCGGCACGATCGCAGTGCCTTCCCTGTTGGCT
GATGCCATGTGTGTGGGGTACGACCAGTGGGCCACCAGCCAGCTCATTGGGACCATTTTCTTCTGTGTGGGAATC
ACTACTTTGCTACAGACAACGTTTGGATGCAGGTTACCCCTGTTTCAGGCCAGTGCTTTTGCATTTTGGCCCCT
GCTCGAGCCATCCTGTCTTTAGATAAATGGAAATGTAACACCACAGATGTTTCAGTTGCCAATGGAACAGCAGAG
CTGTTGCACACAGAACACATCTGGTATCCCCGATCCGAGAGATCCAGGGGGCCATCATCATGTCTCTCACTGATA
GAAGTAGTCATCGGCCTCCTCGGCCTGCCTGGGGCTCTACTGAAGTACATCGGTCCCTTGACCATTACCCCACG
GTGGCCCTAATTGGCCTCTCTGGTTTCCAGGCAGCGGGGGAGAGAGCCGGGAAGCACTGGGGCATTGCCATGCTG
ACAAATATTCCTAGTATTACTGTTTTCTCAATACGCCAGAAATGTTAAATTTCTCTCCCGATTTATAAATCCAAG
AAAGGATGGACTGCGTACAAGTTACAGCTGTTCAAAATGTTCCCTATCATCCTGGCCATCCTGGTATCCTGGCTG
CTCTGCTTCATCTTACGGTGACAGATGTCTTCCCTCCCGACAGCACAAAGTATGGCTTCTATGCTCGCACAGAT
GCCAGGCAAGGCGTGCTTCTGGTAGCCCCGTGGTTTAAAGGTTCCATACCCATTTTCAGTGGGGACTGCCACCCTG
TCTGCGGCCGGTGTATCGGCATGCTCAGTGCCGTGGTCGCCAGCATCATCGAGTCTATTGGTGACTACTACGCC
TGTGCACGGCTGTCTGTGCCCCACCCCCCCCCATCCACGCAATAAACAGGGGAATTTTCGTGGAAGGCCTCTCC
TGTGTTCTTGATGGCATATTTGGTACTGGGAATGGCTCTACTTCATCCAGTCCCAACATTGGAGTTTGGGAATT
ACAAAGGTCGGCAGCCGCGCGTGATACAGTGCGGAGCAGCCCTCATGCTCGCTCTGGGCATGATCGGGGAAGTTC
AGCGCCCTCTTTGCGTCCCTTCCGGATCCTGTGCTGGGAGCCCTGTTCTGCACGCTCTTTGGAATGATCACAGCT
GTTGGCCTCTCTAACCTGCAGTTCATTGATTTAAATTTCTTCCCGGAACCTCTTTGTGCTTGGATTTTCGATCTTC
TTTGGGCTCGTCCTTCCAAGTTACCTCAGACAGAACCCCTCTGGTACAGGGATAACAGGAATCGATCAAGTGTTG
AACGTCTTCTCACAAGTCTATGTTTGTAGGGGGCTGTGTGGCTTTTATCCTGGATAACACCATCCCAGGCACT
CCAGAGGAAAAGGAATCCGGAATGGAAGAAGGGTGTGGGCAAAGGGAACAAATCACTCGACGGCATGGAGTCG
TACAATTTGCCATTTGGCATGAACATTATAAAAAAATACAGATGCTTCAGCTACTTACCCATCAGCCCCAACCTTT
GTGGGCTACACATGGAAAGGCCTCAGGAAGAGCGACAACAGCCGGAGTTCAGATGAAGACTCCCAGGCCACGGGA
TAGCCTTTGCTGTGCCCTGTGGCCTGGCCGAGTGAGGCATGTATCTGTAGTTCCTTGCTGAGTAACAAGAAGTA
AAATACATGTTTGTATATCTACATTTACATTCTGCGCCCCAGAGCTAAGACAGACTGCGAATCACTTTTCTGCTG
TGAGGGTGATGGTGCCTGATGCGGTGTCTCGCCTATCTCCTTATTTAAGCCCTTAACTCCTTGCCCTTTGAGAGT
GTCCATTGCTGGCCATGGTCACTAAATTTGAAGTTCCAGTCTCCTCCTTTGGAGTGGACATTTAAATCTGCAGCC
ATTCTTGCTTCAGTTCCCTTCCACCACCCAGGGCTGGCTTTTCTATAAGCCACCTCCAGGCTCCAGGGGCTTTC
TCTCTCTCTCCGAAGCCCTGGACCTGTTTCTTGTCACTTTGACCCTCGTCTGTGCCGCGGAGACCTCCTCTGA
CCAAGGGGCACTAGTATGCCTTGCCTATCATGACTGACTGGCCCAGTATGATTCTGTTGTGCTGATCTCCCGG
AGGAGGAGGCTGTTGACCTGAAAACAGTGGCGTGGCTCCCTGTGCCAGATCTGGCCATGGGTGAGGCCTGCAC
AGATGTTGAATGAACATCTGTTTGGGGCATTGGAGGGAAAAGGAAAGGACCCTGAAGCCAATATCTGATTCTCGG
CTGCACCTTCTCTTGGCCACCCTGGCCCTGACCGGGCCAGCACGTGCACACTGGCCTCTTTTCAATTTCACTAGTG
GCCGAGACACCTCTCTGGCATTATCACTGTTGGCCGGTGTGATGAGTATAGAGTGCCACCCAAGGCACCAAGTC
ACACAAGCTGATGGGCGTCTTGGCTCTGCCGTATGTGGATGTTATTGTGCGCGCGTCTATAATTACAAGGTTT
TATTCTATTTAATGTTATTGACTATAGCAGATTTTGGAAATCAGTGTTTTCCATGTGACCCTCTTTTCTTGCAT
CCCTATTCTTGTCCCCCACCCTCTTCCCCCATCAAGAAAAAGAACCCAGCATTGTAAAGCTGTGGACACCAT
CAGGGAAGCTTGTGTAAACGGCTTTTGAAGGCCAGTAACCATTTGTTGTGGTTGTGTTTTGTATTGCTTGATACCA
TGAAAGTGTAATACTGTAATGCCTAATCTATTTATCAAAACTGACTACTGGACCGGAGCCCAGAAACCATGGGT
CAAGTTACACGTGAATTTGTTTTGTGAAGAAGGGAAGCTGGGGCAGGTAACACGCAGAGCCGCCACGTGGAACGG

1597/2825
FIGURE 1420B

TCTGTCCGCCGGTCTGTCCCGCTTGCCGGGCTTCTGTTGCAAGTCTTGGCTTAAGGAGACTTCTGTGGGTTGCC
ATGTCGCACGTCCGTTAGATCTTGATTTTACAGGTGAGGGTGGTTGCCAAAGGTGATAAGAAAAGCAGCCAACAG
GCTCCCTCTCACTTAAGAGAGTTCTAATTAATAACACTAAATTCTTCTGAGAAATGACTCCTCTTGTTGGTT
TGAAGTTTTTTCAGTGAAGGAAAAGGCCTGAGATAGGAAGCAGTGCCCTCGCTTCATGAGGTGGCACATCTTCGGT
GGCCGTTGGCCTGGTCGAGCTTTGGTCAGCTGCGTGCGGTGCCGTCTCCTGTCTCCAGCGGCAGGGCATGGTTCT
TGGCAGCCTGGTGTCCACACGGTGCAATTCCTGTCCCCCTCGGCCCCAGGCTGGCTCAGCTCTCCAGTGCTGCGGC
GCTGTCTTTGCAGCATTGCCATGTACCCGTAGCCCCCTTCACTCTTGGAAGTTTGGGGCTTCAAGGTTTATTCTG
GCAAGAACACCTCGGAGCCACTGCATTGTTTTGCCAAAACTTACTGCAGATTAAAGTAAAGAACTTAGATGCTAA
ATTACATCTAATTTTGTATGTTTTTTTTAAATGTGTCTTTGATGCATACTTTAGAAGCACACTGGCTCGCGGTTTC
CATCCCTCTTGCCCTTGGGACACTCTTGAGGCTGGCAGCCCTCCTGCAATGAGTTGCTCTCAGTTCCCTCTGTTTG
GATTTTGCTCAACATCTCCAGTTTCTCTGCTCTGAAAAATGGGGAAAAGTCTGCTAAACATCCCAGAGATTGCAAT
CTTCTAGCTCTCCAGGTGAGCAGAAAGACCAATATCCAAATAAAAGCCTGAAAGCCATTGGTGATCCAGGGGCA
CCTTCTCTTCAGCTTGACTGGGCGTCTTCCGCTGCATAACACTCAAGGTGTCTGCTCTAGTCATCCAGAAACCCA
CTCCCTTCTGAAGCCCTCCTTGGGCGGGGTTGTATCAGGAGGATTCAACCCCGCTAACATGTGGGGTGCCCTCT
GTAGGCCTTCACACAGGGAAGGAAGCCCTACCCCTTCAACTCCTGTTGGAGTGAGAGTTTCTGTTCTGATTCCA
CTGTGGCCAACCCAATAATTCTGTCCGAGGAGGGGTAAAGGAATAGGAGGTGGGGAGCAAAGAGGGCAGCCTGAC
TAGATGCCCTGCTGAATCTGGTACTTTCTGCACAGCCTTGAGTGATTGGAGTCCCCTAATGACTAATAAACTTG
AACATGTAAACACACACACACACACACACACACACCATTTTAGGAAGTGTTCTCCTACTGGAAAATATGCTACAG
AATGAAAGTTTGTAAATTGAAAGAAAAAGAATGTATTCATCTGCTTCTTGGGTTTAAGCACACACCTGAAGGGGAG
ATATTGGGGGACACGGTGGCCACTCGCGGTCTGTGTTCATGACACTTCCATTACATCATTGGCCTGCGTTGCTG
GGGCTTTGAACCACCACCCCGTACTTTGTTTTGCCGTGAGAGTGTGTAATAATTTTTGGATGTGAATGTCCTTG
CAGGCCGTTAGTCTCCAGTTTCCACAGAGACCACCTACCCACCACCTTCCAGGTACCTGCCTGGTCCCTGAA
AGAAAGCATTGTGTGGGCAATCCCAACATGAAATGTAGACAGCGTGAATACGGACAGGAGGTGATGCCATATTC
ACAGTGGGGGATGGAGGGCCCCCACCCTGCTTCACAGAATAATGGGAAGTACTCTAGTCTTTGTAAGCAATTT
TCATTCTCATTAGGAAGTTAAATGTAGATTACACAGATACATTTACTTTCAGAATCCTCAAGAGGATTTCAAATGC
TAACTTTTAGTTTTCTTGGGATTGATCAAGGCAAGAGAAGTGGCTTTAACCATGCCAGCCAGAATGAAGCATCATG
GGTCTGATGGTTTTCCCGTTTTTCATGGTAACAAATTCGCACAGAGGTTTTGCTTTATGCTGTAGAATACCGACTT
TCATGATGACAACCTTGGTTTTATGCATGAATATTGCAGTATTTCCATATAGCAAAATAACATTTCTACCCAGGATA
ATAGTCACAGTTTTCCAGGGAGGGAATGATATAATTTTCATGACAATGTCATGTGATGATAGAATTTCTCCATTG
ATGAATCTCTAGTATGTGTGTATACTTTATTTACCCATACGTATATTTTATGACCATGAGCTAAGTTGTTATTTT
TTTCATTACATATCCCTGCTGAAATATTGGTACTAGCAACTTAAAGTTGGCAAGTCTCATCTTCAGTAATACGGAT
GCCATGGGAGTGGCCAGGCCAGATTGAAGGTGAATATGGAGCAGTAGCAGAAGCCTCATTCCAGAACCCATCTGG
CCAGAGAAGCAGCAGCATCCTGGGGGATGGCCGTGCATGGGGTGTACACTCGCTATAGGCATAGGCCCGGCATGG
CTGTCGCTGGACGCCAGCTGTGCACACCCAGCCACACCTGCTGCACGCCGCGTTAGTGTGCGGCTCCGGGCCTGA
GCATTGCAAAAGCTCGCTTCTCCAGGGAGCCTCCTCTTGCTTTGGAAAAGAGCCCAGGGACTTAACGTGCTGCC
TGTTGTACTCTGTCCCTCATGACTTTTTAGACACAGGGACTAGGACATCGACCACCCTCTGCCCCCTCCTGCAGT
CAGAACCCGAGTAGTGCAAGAACGGCCACCCGGTTTTGCCAGCGTTCAGCGTCTGCCCATGGACCCATAAGGCAC
ATTAGCGTTGGGGGTCTCTTTTACAGCAGCCTCACAGACATTCCCGTCTCTTCTGGTTGGTGTGACTGTGTTTCA
GCATCACTCTACCCCTCCCATGTCCTTAGCATTGCTGTGCGTGTTCAGGCACTTAGGACACCCTTCCCCACGTT
GCCATCTTACTGACAGTTCAAATGACTCTCCTTTTTTGTTCGTTAGTAACAATCTTCATTTGACACCTTAATACA
TTTCTGACTGTTCTTAAACAGTGGGGATGCCTATATTTTCTTGGTTTGTGACTGACTTTGGCTATATATA
CCTTTCTGGGGTTTTGTTTGTTTTTTATTTTTATTTTGAATTACCGAGGGTATTTGGGGTGGGGTTGTTTTTGGAG
ATGTGTAATCTTTTTATGGAGTTTTTAAAAAGAATTTTCATATTGTTTTTCTAACATGGCTTCATTAAACGTTTA
AGTATTTTAAAAATATGTAATATTGGACCAGATGTTGTGAATAATAGTAGAGATAAAGCTATTTTTATTCTGTAT
TTTTAAACTGTTCCGTACAAATAAAAGCTCTCCTGGACAC

1598/2825
FIGURE 1421

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGC
CTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGATTCTTCAAC
ACCTTCTTCAGTGAAACGGGTGCTGGCAAGCATGTGCCCCGGGCAGTGTTTGTAGACTTGGAACCCACAGTCATT
GATGAAGTTTCGCACTGGCACTTACCGCCAGCTCTTCCACCCTGAGCAACTCATCACAGGCAAGGAAGATGCTGCC
AATAACTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTCGTGTTGGACCGAATTTCGCAAGCTG
GCTGACCAGTGCACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAACCTGGTTCTGGGTTTACC
TCGCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATTTACCCGGCGCCC
CAGGTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAGCACTCTGATTGT
GCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTCTAGAAAACCTCGATATCGAGCGCCCAACCTACACT
AACCTTAACCGCCTTATTAGCCAGATTGTGTCTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTT
GACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCCCTGTC
ATCTCTGCTGAGAAAGCCTACCATGAACAGCTTACTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAAC
CAGATGGTGAAATGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTATACCGTGGTGACGTGGTTCCC
AAAGATGTCAATGCTGCCATTGCCACCATCAAAACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGC
TTCAAGGTTGGCATTAAATTACCAGCCTCCCACTGTGGTGCCTGGCGGAGACCTGGCCAAGGTACAGAGAGCTGTG
TGCATGCTGAGCAATACCACAGCTGTTGCCGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCC
AAGCGTGCCTTTGTTCACTGGTACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTTCAGAGGCCCGTGAGGACATG
GCTGCCCTTGAGAAGGATTATGAGGAGGTTGGAGCAGATAGTGCTGACGGAGAGGATGAGGGTGAAGAGTATTAA

1599/2825
FIGURE 1422

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHSFGGGTGSFT
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLTVAEITNACFEPAN
QMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAVAEAWARLDHKFDLMYAKRAVHVHVVGEGMEEGEFSEAREDMAALEKDYEYEVGADSADGEDEGEY

1600/2825
FIGURE 1423

AGTGTGGTTTTAGTTTTTCTAAGAAGTGGCGTGGTTTGGGGCTTTATATCCGGGAGGAGCATATGTACGCAAAT
CCTGGGGCGTTTGCAAACCCGGATCCGGGGCGTCTGGCCCCATGCCCGGCCGGGCGTTTGAGGGCTACTGCCACG
CAGCGTTTCTGGAGCCTGCCGGCTGGTGCCCTGGTGGCCTTTATCTCTGTCCCCCTTTGTCTCTTTATCTCAGG
CTCTCCAGGAGGCCGGGGGGCCACTCCGCCTATCGCTCCCCCTCGGCTACGCTGCCACTCCAATGCCCCGCAGGT
CGCGAGCTGCTGTTCTTTTGAAGGCGCCGGAGAACCAGGGGCGTCCCGCGCCACCTCTGACTCGGAGCAGCGCCG
AGCACTGACGCTCCCGCCCTTGGGCAAGGACGCCAGTGCGCCCGCGCGCTCCCTCTGCGCGGCAGCCCGTCCGCG
GGCCCTCAAGGGGAAGCCCAGGCCAGG**ATG**CCCCCGGGTTCGCGCGGTGGCCGGGCTCCTGTTGCTGGCGGCCGCG
GGCCTCGGAGGAGTGGCGGAGGGGCCAGGGCTAGCCTTCAGCGAGGATGTGCTGAGCGTGTTCGGCGCGAATCTG
AGCCTGTCGGCGGCGCAGCTCCAGCACTTGCTGGAGCAGATGGGAGCCGCCTCCCGCGTGGGCGTCCCGGAGCCT
GGCCAGCTGCACTTCAACCAGTGTTAACTGCTGAAGAGATCTTTTCCCTTCATGGCTTTTCAAATGCTACCCAA
ATAACCAGCTCCAAATCTCTGTCTATCTGTCCAGCAGTCTTACAGCAATTGAACCTTTCACCCATGTGAGGATCGG
CCCAAGCACAAAACAAGACCAAGTCATTCAAGAGTTTGGGGATATGGATTCTGTGCTAGTGACGATTATTAATCTG
GCATCTCTCCTCGGATTGATTTTGACTCCACTGATAAAGAAATCTTATTTCCCAAAGATTTTGACCTTTTTTG
GGGCTGGCTATTGGGACTCTTTTTTCAAATGCAATTTTCCAACCTATTCCAGAGGCATTTGGATTGTATCCCAA
GTCGACAGTTATGTTGAGAAGGCAGTTGCTGTGTTTGGTGGATTTTACCTACTTTTTCTTTTTTGAAAGAATGCTA
AAGATGTTATTAAAGACATATGGTCAGAATGGTCATACCCACTTTGGAAATGATAACTTTGGTCCTCAAGAAAA
ACTCATCAACCTAAAGCATTACCTGCCATCAATGGTGTGACATGCTATGCAAATCCTGTGTACAGAAGCTAAT
GGACATATCCATTTTGATAATGTGCTAGTGTGGTATCTCTACAGGATGGAAAAAAGAGCCAAGTTCATGTACCTGT
TTGAAGGGGCCCAAACCTGTGAGAAATAGGGACGATTGCCTGGATGATAACGCTCTGCGATGCCCTCCACAATTC
ATCGATGGCCTGGCGATTGGGGCTTCTGACCTTGTCTCTCCTTCAGGGACTCAGTACTTCCATAGCAATCCTA
TGTGAGGAGTTTCCCCACGAGTTAGGAGACTTTGTGATCCTACTCAATGCAGGGATGAGCACTCGACAAGCCTTG
CTATTCAACTTCCTTTCTGCATGTTCTGTCTATGTTGGGCTAGCTTTTGGCATTTTGGTGGGCAACAATTTTCGCT
CCAAATATTATATTGCACTTGCTGGAGGCATGTTCTCTATATTTCTCTGGCAGATATGTTTCCAGAGATGAAT
GATATGCTGAGAGAAAAGGTAAGTGAAGAAAAACCGATTTACCTTCTTCATGATTGAGAATGCTGGAATGTTA
ACTGGATTACAGCCATTCTACTCATTACCTTGTATGCAGGAGAAATCGAATTGGAG**TA**ATAGAAAATGGAAGAT
GGTGTGTTAATAAAGGCATTTAATAGATAAAAAACATCTCCAAAAAGGATTTTGAAGCTGATCCTATTTAGTTAA
AAAGATAATTTTGCTTTCAACTGTAGGTCCAGAAAACATAATTATTGGCATCAGTCTGTGAAATAGTCCATTATTT
GTTGTTAAAAATGCTTCAAAAGGTTTTCAGTGTGAGTCTGAGATGCCTGGTATATAGGAGCCTTTGGGAAATACT
TATTTTTTCAGTATTCCATGCATATTAGATATCACCATGAAGCAAGAGACATGCATTCTATAATCATGTAGACACT
CAGACTCAGGGGAAAAATACAAGTTATATCCTGAAAGCCTTTAAACTCTATGGTAGGATCAAAGATTCAAATGGT
TTCAGAGAGGTTTTATTTCAATTAATTTGTTCTAGTGCTTTCAAGAGCAAGTACATCAAATGTAGAAGGTAAAA
TGTATGCAACACTAATATAAATTATTCCAAGTCTTTAAGGAGCCAAAGAAAAAAGATTTCTCACAGCTTTTGT
TTCTGTTTTGTATTTCAATTAGGAACCTGCAGTATTATTTTGAAGAACCATTTCTAAATAATAGGAGTTAGGAAAT
AAATAAAGTTTTGCTAGCCCTGCTAAGTTCAGGCTTAGAGGCTTATCGCTAAGTXTAACTTCACCAGATTCCAC
GAAAAGCTGGATAGCTTTTTTTCTGACTTATGTTGTGGTTGCACCCCTCACAAATGGCAGAACAGTATGTAAAGC
TGGTAACACCTCGGTTTCAGTGCACCATGTGTTTGCTTTGTGAAGGTGAAGAATATGTTGGTTTAGAGAAAGAAA
TTGGATGTAATTTTATGCAATTTACTTTTAAAGACAAACATAACTATTTAGCAGAGAATATTTTAATAAATGCAA
AACAACAGCTGGACTGCTGTACATCAAGGACAGATTAAGTGAAGAACATATGTTTCTTATGTGTGATTGAGAGCC
ATTGAGAAAAGACTTCCTTTGTGTTTCAGCCTATACTTTTCCATATGGTATACCTTGAAAAAATTAGCACACCAT
GGTTATTTTTCTACCTTTTATAAAGACAGAGCCTGTTTACTCATTTAGAAGATAGAGAAAATTGGTCTAAAATT
GAACATCCTAGATTACACTCCCAAGTCACTTAAGGTGATTTGATGGTGAGGAAAAATGATTGACAAAGCCCAACA
ATGATCTCAGGAATTACATTTTCCAACAGACCAAAAAATGTTTTCATGTAGCAGCAATGCAGATTTGGTGAATAT
TTAATATATATTTTAGTATGTATTTCACTTTATGACTGACAATAAAAAATATTGTTTGGCCAAATAGTAAACAC
CCTTTTGAAACCATGAAAAAA

1601/2825
FIGURE 1424

MAPGRAVAGLLLLAAAGLGGVAEGPGLAFSEDVLSVFGANLSLSAAQLQHLLLEQMGAASRVGVPEPGQLHFNQCL
TAEEIFSLHGFSNATQITSSKFSVICPAVLQQLNFHPCEDRPKHKTRPSHSEVWGYGFLSVTIINLASLLGLILT
PLIKKSYFPKILTFFVGLAIGTLFSNAIFQLIPEAFGFDPKVD SYVEKAVAVFGGFYLLFFFERMLKMLLKTYGQ
NGHTHFGNDNFGPQEKTHQPKALPAINGVTCYANPAVTEANGHIHFDNVSVVSLQDGKKEPSSCTCLKGPKLSEI
GTIAWMITLCDALHNFIDGLAIGASCTLSLLQGLSTSIAILCEEFPHELGD FVILLNAGMSTRQALLFNFLSACS
CYVGLAFGILVGNNFAPNIIIFALAGGMFLYISLADMFPENNDMLREKVTGRKTDFTFFMIQNAGMLTGFTAILLI
TLYAGEIELE

1602/2825
FIGURE 1425A

GGCCAAAGGTCAAGATACTTCTCTGGGAAATGTTGCTGCTGATGCTGCTTTACAAAGTCATACAATGAGTGTTTG
GTTTAAGAAAGATTTTCATACTTAAAAGATTTTCATCTTGGAATACATCAAGTGAAAATTAAATTCCTTTTGGGA
AACATTTTCCCTTCTGATATATTATACTTGTAATGGGCGACATGGCAAACAACCTCAGTTGCTTACAGTGGTGTA
AAACTCTTTGAAGGAAGCTAATCATGATGGAGACTTTGGAATTACGCTCGCAGAGCTGCGGGCTCTCATGGAGCT
CAGGTCCACAGATGCATTACGAAAAATACAGGAAAAGCTATGGAGATGTCTATGGAATTTGCACCAAATTGAAAA
ATCTCCCAATGAAGGTTTAAAGTGGAACCCCTGCAGATTTAGAAAGAAGAGAAGCAGTGTTTGGAAAGAATTTTAT
ACCTCCTAAAAAGCCAAAAACCTTTCTTCAATTAGTATGGGAAGCATTACAAGATGTCACCTTTAATTATATTAGA
AATTGCAGCCATAGTATCATTGGGCCTTTCTTTTATCAGCCTCCAGAAGGGGATAATGCACTTTGTGGAGAAGT
TTCTGTTGGGGAGGAAGAAGGTGAAGGTGAACTGGGTGGATTGAAGGAGCTGCAATCCTCTTGTCTGTAGTGTG
TGTGGTGTAGTAACAGCTTTCAATGACTGGAGTAAGGAGAAACAGTTTAGAGGTTTGAGAGCCGAATTGAACA
AGAACAGAAGTTCAGTGTATCAGGGGTGGTCAGGTCATTAGATACCTGTAGCTGACATTACTGTTGGAGATAT
TGCTCAAGTGAAATATGGTGATCTTCTTCCAGCTGACGGCATACTTATTCAAGGCAACGATCTTAAATTTGATGA
AAGCTCATTGACTGGTGAATCAGATCATGTTAAAAAGTCTTTAGATAAGGATCCCTTACTTCTATCAGGTACTCA
TGTAAGGGAAGGCTCTGGAAGAATGGTAGTTACAGCTGTAGGTGTAAATTCTCAAACCTGGAATTATCTTTACCTT
ACTTGGAGCTGGAGGTGAAGAGGAAGAGAAGAAAGATGAGAAGAAAAAGGAAAAGAAAAATAAGAAACAAGATGG
AGCTATTGAGAATCGCAACAAAGCAAAGCCAGGATGGTGCAGCCATGGAATGCAGCCATTGAAGAGTGAAGA
AGGTGGAGATGGTGATGAAAAAGATAAAAAAGAAAGCAAATTTGCCAAAAAGGAAAAATCTGTTTTACAAGGGAA
ACTTACAAAACCTGGCTGTTTCAAGATTGGCAAAGCAGGTCTGTTGATGTCTGCCATCACAGTTATCATTCTAGTATT
ATATTTTGTCTATTGACACCTTCTGGGTTTCAAGAAAGACCATGGCTTGTCTGAGTGCACACCAATTTATATACAATA
CTTTGTGAAGTTCTTCAATTATTGGAGTTACAGTTTTAGTGGTTCGAGTGCCAGAAGGTCTTCCACTTGCAGTCAC
GATCTCACTGGCTTATTCAGTCAAAAAATGATGAAAAGATAATACTTAGTAAGGCATCTGGATGCTTGTGAAAC
CATGGGAAATGCTACAGCTATTTGTTTCAAGATAAAAAACAGGAACCTTTGACAATGAACAGAATGACAGTCGTTCAAGC
TTACATAAATGAAAAACATTATAAAAAAGGTTCTTGAACCAGAAGCTATTCCACCAAATATTTTGTCTATCTTGT
AACAGGAATTTCTGTGAATTGTGCTTATACATCAAAAAATATTGCCACCAGAGAAAGAGGGTGGATTACCTCGTCA
CGTTGGTAATAAAACTGAATGTGCCTTGTGGGACTTCTTTTGGATTTAAACCGGGATTATCAGGATGTTAGAAA
TGAAATACCAGAAGAAGCAGTGTACAAAGTCTACACCTTCAATTCTGTTAGGAAGTCCATGAGTACTGTCCTGAA
AAATTCAGATGGAAGTTATCGAATATTCAGCAAGGGTGCATCTGAGATAATTCTGAAAAAGTGTTTTCAAAATCTT
GAGTGCTAATGGTGAGGCAAAGTATTAGACCAAGGGACCGTGATGATATTGTAAAAACTGTGATTGAACCGAT
GGCATCAGAAGGCTTGAGAACCATATGTCTTGCATTCAGAGATTTTCCAGCAGGAGAACCAGAACCAGAGTGGGA
TAATGAAAATGATATTGTACCGGCTTACATGCATTGCTGTTGTGGGGATTGAAGATCCTGTGAGACCTGAGGT
GCCAGATGCAATTAAAAAGTGTGAGAGGGCTGGAATTACTGTGCGGATGGTCACTGGTGATAATATTAATACTGC
TCGGGCCATTGCTACCAAATGTGGTATTTTACATCCTGGGGAAGATTTTCTGTGCCTAGAAGGTAAAGATTTTAA
CAGAAGATACGAAATGAAAAAGGAGAGATTGAGCAAGAGAGGATAGACAAGATTTGGCCAAAACCTTCGAGTACT
TGCAAGATCATCTCCTACTGATAAGCATACTGGTTAAAGGTATAATTGACAGCACTGTCTCAGACCAACGCCA
GGTTGTAGCTGTAACTGGTGATGGTACAAATGATGGCCCAGCACTAAAGAAAGCAGATGTTGGATTGCAATGGG
TATTGCTGGAACGTATGTAGCTAAAGAAGCATCCGATATTCTCACAGATGACAACCTTTACAAGCATTGTTAA
AGCAGTTATGTGGGGACGAAATGTCTATGACAGCATCTCAAAATTCCTTCAGTTCCAACCTTACTGTTAATGTAGT
AGCAGTGATTGTTGCTTTTACGGGCGCCTGCATTACTCAAGACTCACCGCTTAAGGCTGTGCAGATGCTGTGGGT
AAACCTCATAATGGATACACTCGCTTCCCTGGCTCTGGCAACGGAACCCACTGAGTCTCTCTTGTCTCGGAA
ACCTTATGGTAGAAATAAGCCTCTCATCTCACGTACAATGATGAAGAATATTTTGGGTCTATGCATTCTATCAACT
TGTAAGTAGTCTTTACACTCTTATTTGCTGGAGAAAAGTTTTTGGACATTGATAGTGGAAGAAATGCTCCTTTGCA
TGCTCCTCCTTCAGAACATTATACTATTGTTTTTAATACCTTTGTGCTGATGCAACTTTTCAACGAAAATAAATGC
CCGGAAAATTCATGGTGAAAGAAATGTATTGGAAGGAATCTTTAACAATGCCATCTTCTGCACAATTGTTTTAGG
CACTTTTGTGGTACAGATAATAATTGTGCAGTTTGGTGGAAAACCTTTTCAAGTTGTTTCAAGAAATTTCAATAGAACA
GTGGCTATGGTCAATATTCTTAGGAATGGGAACATTACTCTGGGGCCAGCTTATTTCAACAATTTCCAACCTAGCCG
TTTTAAATTCCTCAAAGAAGCTGGTCATGGAACACAAAAGGAAGAAATACCTGAGGAGGAATTAGCAGAGGATGT
TGAAGAGATTGATCACGCTGAAAGGGAGTTGCGGCGTGGCCAAATCTTGTGGTTTAGAGGTCTGAACAGAATCCA
AACACAGATTCGAGTGGTGAATGCATTTTCTAGTTCTTTATATGAAGGGTTAGAAAACCGGAATCAAGAAGTTC

1603/2825
FIGURE 1425B

GATTCACTTTATGACACATCCTGAGTTTAGGATAGAAGATTCAGAGCCTCATATCCCCCTTATTGATGACAC
TGATGCCGAAGATGATGCTCCTACAAAACGTAACCTCCAGTCCTCCACCCTCTCCCAACAAAAATAACAATGCTGT
TGACAGTGGAATTCACCTTACAATAGAAATGAACAAGTCTGCTACCTCTTCATCCCCAGGAAGCCCACTACATAG
TTTGAAACATCACTCTGAATTGTAAGCTGAATGTTAACACACTAGCTGCATTGTAAAGAAACAAATTGAAACTGG
GTCTTTTCACATATTGTGATGGACAAGCTAGTATTCTTGTCTTTGGACTTCAACAGAAGACACACTTGTACGAAT
GTAGATTTATTTTTTAAAAAAGCAAAGCTTTCTGCCAGACTGAGGGTGCTTTTGGGGGGTGGGAGAA
ATGAACTGACAGATAAACAGTAACTCAGCGTAAGTGACCTGTGGATCATCAGTAGTACCAAGCATGGTCCTGAA
CAGTGTATTAGCAGAGCTTTAGTTTATCTCAGTCCTGGATGGGAGAGAGAGGGAGGAGTAAACTGGGCAAGACA
AAGAGCCCTGGATCGTTGAATTGATAGTTAATTTCTGCTGTTGGCTGTTAATAATTTGGATTATTTATGTTTAT
AAATGATACAGATCTGTTTACAAGGTTTGTAGATACTTTTTTTGTTCTGTTTCATAGATGGGAAGCTTCCTTATA
ACTGATGCAGAGAAAAATTAGTCCTTCAAATACTGCTGTATTTTCAGG

1604/2825
FIGURE 1426

MGDMANNSVAYSGVKNSLKEANHDGDFGITLAELRALMELRSTDALRKIQESYGDVYGICTKLKTS PNEGLSGNP
ADLERREAVFGKNFIPPKPKTFLLQVWEALQDVTLLIILEIAAIVSLGLSFYQPPEGDNALCGEVS VGEEEGEGE
TGWIEGAAILLSVVCVVLVTAFNDWSKEKQFRGLQSRIEQEQKFTVIRGGQVIQIPVADITVGDIAQVKYGDLLP
ADGILIQGNDLKIDESSLTGESDHVKKSLDKDPLLLSGTHVREGSGRMVVTAVGVNSQTGIIFTLLGAGGEEEEK
KDEKKKEKKNKKQDGA IENRNKAKAQDGAAMEMQPLKSEEGGDGDEKDKKKANLPKKEKSVLQGKLTKLAVQIGK
AGLLMSAITV IILVLYFVIDTFWVQKRPWLAECTPIYIQYFVKFFIIGVTVLVVAVPEGLPLAVTISLAYSVKKM
MKDNNLVRHLDACETMGNATAICSDKTGTLTMNRMTVVQAYINEKHKKVPEPEAIPPNILSYLVTGISVNCAYT
SKILPPEKEGGLPRHVGNKTECALLGLLLDLKR DYQDVRNEIPEEALYKVYTFNSVRKSMSTVLKNSDGSYRIFS
KGASEIILKKCFKILSANGEAKVFRPRDRDDIVKTVIEPMASEGLRTICLAFRDFPAGEPEPEWDNENDIVTGLT
CIAVVGIEDPVRPEVPDAIKKCQRAGITVRMVTGDNINTARAIATKCGILHPGEDFLCLEGKDFNRRIRNEKGEI
EQERIDKIWPKLRLVLARSSPTDKHTLVKGIIDSTVSDQRQVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEA
SDIILTDDNFTSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTLASL
ALATEPPPTESLLL RKPYGRNKPLISRTMMKNILGHAFYQLVVVFTLLFAGEKFFDIDSGRNAPLHAPPSEHYTIV
FNTFVLMQLFNEINARKIHGERNVFEGIFNNAIFCTIVLGTFFVQIIIVQFGGKPFSCSELSIEQWLWSIFLGMG
TLLWGQLISTIPTSR LKFLKEAGHGTQKEEIP EEELAEDEV EEDHAERELRRGQILWFRGLNRIQTQIRVVNAFR
SSLYEGLEKPESRSSIHNFMTHPEFRIEDSEPHIPLIDDTAEDDAPTKRNSSPPPSPNKNNNAVDSGIHLTIEM
NKSATSSSPGSP LHSLETSL

1605/2825
FIGURE 1427

GGGGGCCCTCCGCAGGTTTCAGTCCTCGCGTCGGCCGCCCCGCGCTCAGTCGCGCGCACCTTCTCTCGCGGCCGGG
GGACCGCAGCGCGGGGCTAGCCCGGAGACCCGGCCACCGGCCTGGGGCGCCTTCACGCCGTCTCGGAGCGGATAA
TGCGGTGAGCAGGCACCACGCCGGCAGACTCGGCTGGATCTGCGCACAGCGGCAGGGATTGCGTGCGCCCGCGGG
AGCCCCGGGGCAGCGGCTGGGATCCTCAGCGGCGGCCGTTTGTCTGGTTGTGGTCAAGACTGGATGATGTAAC
TGGCTCTCTAGGAAGCCTCACTTGGCCGTAACCTCAGGAAGGTTCTCTTTGACCCCATCTCATTTTGAAGCCACT
TCTGAAGCCACTTGAGAAAAATGATGTGACAGTTTCTATCAAAAAGGATTTCAGAAACATATACCATCTGTGAAGA
AAGTGGCCCTTTCTCCCGCTTGCAAAATAGACATTCTCAAATTCCAAAATGCCAGCCAAGACCCCAATTTACCTG
AAAGCAGCCAATAACAAGAAAGGAAAGAAATTTAAACTGAGGGACATTCTGTCTCTCTGATATGATCAGTCCCCCG
CTTGGAGACTTTTCGCCACACCATCCACATTGGCAAAGAGGGCCAGCACGATGTCTTTGGAGATATTTCTTTCTT
CAAGGGAACTACGAGCTTTTACCTGGAAACCAGGAGAAAGCACACCTGGGCCAGTTCCTTGGGCATAATGAGTTC
TTCCGGGCCAACAGCACCTCGGACTCTGTGTTTACAGAAACGCCCTCCCCGGTGCTCAAAAATGCCATCTCCCTC
CCGACCATTGGAGGATCCCAAGCTCTCATGTTGCCCTTATTGTCACCAAGTACATTTAATTCCAAACAGGAGTCC
TTCGGGCCAGCAAAGCTGCCAGGCTTAGCTGCGAGCCCGTCATGGAGGAAAAAGCTCAGGAGAAAAAGCAGTCTG
TTGGAGAATGGGACAGTCCACCAGGGAGACACCTCGTGGGGCTCCAGCGGTTCTGCATCTCAGTCCAGCCAAGGC
AGAGACAGCCACTCTCCAGCCTGTCCGAACAGTACCCCGACTGGCCAGCCGAGGACATGTTTGACCATCCCACC
CCATGCGAGCTCATCAAGGGAAAGACTAAGTCAGAGGAGTCCCTCTCTGACCTTACAGGTTCCCTCCTCTCCCTG
CAGCTTGATCTTGGGCCCTCACTTTTGGATGAGGTGCTGAATGTAATGGATAAAAAATAAGTAAACAAGATGCCAAC
TTTTTTCTTTTGGGGTAAAAGGTACAAAAACAACTAACCACAGTTGAAGAGAAGGGCTTCCGGAGCTGTATTTG
CAGTTTTGTGTTGGGTTTTCTAAAATAATATTCTTACAAAGTATTTTTTTTACCTGTTATGCCCTGTTTGCAAAAA
CAATTTAGAAAAAAACAACAAAGCAAAACCTATCTTGGCAAAAAAGGAAGTGAGTCAGAGCCCATTTTCAGGAG
GCATTGGTGATGTTTCGGCTCACATATTGTTTGCAGACACACAAGAAATCTGGCTTGGCCAGGATTGGCACTAGCT
ATGAAGGGCTGAGCGAGTCACATTAAGGAACCTTCACGGAACCTTTATAGCACTCCGACATTTTCTGAGCAAGAGGA
AGTCAAAATTTATTTAACACCTAAGCCTTTTTGTAGACTCTTTTCTATATATTGCTTAGGCTCACCATAGTGAAT
TCTCCAGTGTTAAACTTTTCTGTTTTTACATTTGAACCTTTATGGGTTTTTGGGGATTTTCTTGTAGTTCCTTATAT
ATCCCTATATATTATATCTATATTGCAAAATTTTGACTGTCTAGCTACATGTTGGTAAGACACAGGCAAAAGTATTA
CTGTAAGTAAAGTTATTTTTTAAAGTTAAATATATTTTTTACGTGCCTTTGGCTTTTTTATTGAGAGTCTACATTTT
ATAGATTCTACATCAGATGTTGTCACTTATTTCCATTGGGATTCCATTGTAAGCTGTGTATGTGCGTGTTTGGAA
AAGTGTATTCTACTTAGTTTTTTTTTCTTCATCTGTTATCATACTTTTAAACAGCAACCAATAACGGATTGTAAA
GTGTAAAGGCACAGGTTACTCATGATGCTTCTGCAGAGACTGTGGGCTACACCACATATGTTATTTGGAAATATA
GGTATTTTAGTACAGTACATACTTGCATTACATAGGTACTTCAAGCAACACAATAAAAAGTAAATGATAAAGTGA
ACTTGCTTGTTTATAGTAATAAACAAGACCATAAGAGAATAAGTATAGCTAGAGAAATTGCTTCTCTGAAATGTA
CATGAGCCCTTAAGGTAAGAGATGATTTCCATCTACTCTCATTTTGATTACTTCTTATGGTTTGAGAGGCTAGA
AACTGAGCCTCTCTACTTTTGGAAAAATGAACATGTGAGGTCAGATTTTTTTTTTTTTTTTAAAGTCAGCACTGATG
CCACCTCTCAGTGGTCATTTCTGAGCATCTTCTGACTTGAACACCTTCTACAGCAAACTCTTGCAAGTCCAGT
TTCATCCCTGTAAAGGCAATGTCTTTTACGCAGAAAGTGCCATATAGACGAGATAAAGGCAGCTAAAACGAGGG
CAGTAGAGAGCACTTACCCGACCCCAAGGTGCCAGAGATGCCCTGAGGATGGTGGTTAAGGAAACAGGAGCAGGA
AATGTACACACAGATTCTGTCCCTTTGCCAACTACTCCTTCCCCATCAAAGAAAAACACTTGCACACAGTAACT
ACCAGCTCCTTCTCTCAAACCTTGATTTCTCCTGGAAATGTATCTCAGAAATGACCTCCTCTCCCAACCACTTCA
ACGATTCTTTCTTTGGGTTTGGGGTTCTTGCAGTTCTATCATCTAAAATAACCTTTGGACTGCAGGTAAAAATGCA
ATTAGGACAACCTAACCAAGTAGACGAAACAAGTTCCCCTAGGCAGGGGTGTCCAATATTTTAGCTTCCCTGGACC
GCATTGGAAGAATTTCTTGGGCCACATGTAAAACACACTAACCTAACCATAGTTGATGAGCTTAAAAAAATAA
AAATAGAAAATTGC

1606/2825
FIGURE 1428

MISPPLGDFRHTIHIGKEGQHDVFGDISFLQGNYELLPGNQEK AHLGQFPGHNEFFRANSTSDSVFTETPSPVLK
NAISLPTIGGSQALMLPLLSPVTFNSKQESFGPAKLPRLSCEPVMEEKAEKSSLENGTVHQGDTSWGSSGSAS
QSSQGRDSHSSSLSEQYPDWPAEDMFDHPTPCELIKGKTKSEESLSDLTGSLLSLQLDLGPSLLDEVLNVM DKNK

1607/2825
FIGURE 1429

GGCGCCCAAGCCGCCGCCGCCAGATCGGTGCCGATTCCTGCCCTGCCCCGACCGCCAGCGCGACCA**ATGT**CCCCATC
ACTGGGGGTACGGCAAACACAACGGACCTGAGCACTGGCATAAGGACTTCCCCATTGCCAAGGGAGAGCGCCAGT
CCCCTGTTGACATCGACACTCATAACAGCCAAGTATGACCCTTCCCTGAAGCCCCTGTCTGTTTCCCTATGATCAAG
CAACTTCCCTGAGGATCCTCAACAATGGTCATGCTTTCAACGTGGAGTTTGATGACTCTCAGGACAAAAGCAGTGC
TCAAGGGAGGACCCCTGGATGGCACTTACAGATTGATTCACTTTCACTTTCACTGGGGTTCACTTGATGGACAAG
GTTTCAAGGCATACTGTGGATAAAAAGAAAATATGCTGCAGAACTTCACTTGTTTCACTGGAACACCAAATATGGGG
ATTTTGGGAAAGCTGTGCAGCAACCTGATGGACTGGCCGTTCTAGGTATTTTTTTGAAGGTTGGCAGCGCTAAAC
CGGGCCTTCAGAAAGTTGTTGATGTGCTGGATTCCATTAAAACAAAGGGCAAGAGTGCTGACTTCACTAACTTCG
ATCCTCGTGGCCTCCTTTCCTGAATCCCTGGATTACTGGACCTACCCAGGCTCACTGACCACCCCTCCTCTTCTGG
AATGTGTGACCTGGATTGTGCTCAAGGAACCCATCAGCGTCAGCAGCGAGCAGGTGTTGAAATTCGGTAAACTTA
ACTTCAATGGGGAGGGTGAACCCGAAGAAGTATGATGGTGGACAAGTGGCGCCAGCTCAGCCACTGAAGAACAGGC
AAATCAAAGCTTCCTTCAAAT**TAA**GATGGTCCCATAGTCTGTATCCAAATAATGAATCTTCGGGTGTTTCCCTTTA
GCTAAGCACAGATCTACCTTGGTGATTGGACCTGGTTGCTTTGTGTCTAGTTTTCTAGACCCCTCATCTCTTA
CTTGATAGACTTACTAATAAAATGTGAAGACTAGACCAATTGTCATGCTTGACACAAGTCTGTGGCTGGTTGGT
GCTTTGTTTATGGTAGTAGTTTTCTGTAAACACAGAATATAGGATAAGAAATAAGAATAAAGTACCTTGACTTTG
TTCACAGCATGTAGGGTGATGAGCACTCACAATTGTTGACTAAAATGCTGCTTTTAAAACATAGGAAAGTAGAAT
GGTTGAGTGCAAATCCATAGCACAAAGATAAATTGAGCTAGTTAAGGCAAATCAGGTAAAATAGTCATGATTCTAT
GTAATGTAAACCAGAAAAAATAAATGTTTATGATTCAAGATGTTATATTAAAGAAAACTTTAAAAATTATTAT
ATATTTATAGCAAAGTTATCTTAAATATGAATTCTGTTGTAATTTAATGACTTTTGAATTACAGAGATATAAATG
AAGTATTATCTGTAAAAATTGTTATAATTAGAGTTGTGATACAGAGTATATTTCCATTCAGACAATATATCATAA
CTTAATAAATATTGTATTTTAGATATATTCTCTAATAAAATTCAGAATTCT

1608/2825
FIGURE 1430

MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEFDDSQD
KAVLKGGPLDGTYRLIQFHHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFGKAVQQPDGLAVLGIFLKVG
SAKPGQLQKVVDVLDSEIKTKGKSADFTNFDPRGLLPESLDYWTYPGSLTTPPILLECVTWIVLKEPISVSSEQVLKF
RKLNFNGEGEPEELMVDNWRPAQPLKNRQIKASF

1609/2825
FIGURE 1431

AGCGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCC
TTTTCTGGAAGGATTTTCGCTGCTTCCCGAAGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTC
TGGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGA
CGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTT
TGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAG
ACAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAATCCACTTCACGC
TCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTTCGGGCATGCAGCGCCTGGCGCAGCTCC
TGGGAGAGCCGCGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTCACGAACCCTCACA
CGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCACTGGG
TCCCCTACATCTCTCTTCAGGAACGCTTGAGGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAA
AAATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAACCCCCCAAACAACCCAACCCACGAGGACCATCG
GGGGCAGAGTCGTTGGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGTCCGCCCCCAGGGACGCT
CTCCAGGAGCTGGCGGCCGCCGATCAGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCCGAAGCT
GAGGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCATCACGGAGGGTCCAGACTG
TCCACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGA
GACTTGGTTGAACTTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTG
AAGTTGCTCTGTACCCATGAACTCCAGTTTTCGAATTATAGAGACAATCTATTTTGTACTTGCACTTGTTATT
CGAACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTTATTCTACTATGAGGGCCTTGTAATAAATT
TCTAAAGCCTCTGAAAAAAAAAAAAAAAAA

1610/2825
FIGURE 1432

MTLEELVACDNAAQKMOTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEDDIALQIHF
TLIQSFCCDNDINIVRVSGMQRLAQLLGEP AETQGTTEARDLHCLLV TNPHTDAWKSHGLVEVAS YCEESRGNNQ
WVPYISLQER

1611/2825
FIGURE 1433

GCTCTTTCCAACGCTGTAAAAAGGACAGAGGCTGTTCCCTATGGCAGAAGGCAACCACAGAAAAAGCCACTTAA
GGTGTGGGAATCCCTGGGCAAAGATTTCTCTACTGGTGTGTTTGGATAACTTGGTGGAACAAAATGTACTGAACTG
GAAGGAAGAGGAAAAAAGAAATATTACGATGCTAAAACTGAAGACAAAGTTCGGGTCATGGCAGACTCTATGCA
AGAGAAGCAACGTATGGCAGGACAAATGCTTCTTCAAACCTTTTTTAACATAGACCAAATATCCCCCAATAAAAA
AGGTGATAAATTGGGTCACAGAGGCAGAAATCACAAATTTATGTTCTGCAATATCCTGCAGCTCATCCGAATATGG
AGGCTGGACCACCTGAGTCAGGAGAATCTACAGATGCCCTCAAGCTTTGTCCTCATGAAGAATTCTTGAGACTAT
GTAAAGAAAGAGCTGAAGAGATCTATCCAATAAAGGAGAGAAAACAACCGCACACGCCTGGCTCTCATCATATGCA
ATACAGAGTTTGACCATCTGCCTCCGAGGAATGGAGCTGACTTTGACATCACAGGGATGAAGGAGCTACTTGAGG
GTCTGGACTATAGTGTAGATGTAGAAGAGAATCTGACAGCCAGGGATATGGAGTCAGCGCTGAGGGCATTGCTA
CCAGACCAGAGCACAAAGTCCTCTGACAGCACATTCTTGGTACTCATGTCTCATGGCATCCTGGAGGGAATCTGCG
GAACTGTGCATGATGAGAAAAACCAGATGTGCTGCTTTATGACACCATCTTCCAGATATTCAACAACCGCAACT
GCCTCAGTCTGAAGGACAAACCAAGGTCATCATTGTCCAGGCCTGCAGAGGTGCAAACCGTGGGGAACTGTGGG
TCAGAGACTCTCCAGCATCCTTGGAAGTGGCCTCTTCACAGTCATCTGAGAACCTGGAGGAAGATGCTGTTTACA
AGACCCACGTGGAGAAGGACTTCATTGCTTTCTGCTCTTCAACGCCACACAACGTGTCCTGGAGAGACAGCACAA
TGGGCTCTATCTTCATCACACAACCTCATCACATGCTTCCAGAAATATTCTTGGTGCTGCCACCTAGAGGAAGTAT
TTCGGAAGGTACAGCAATCATTGAAACTCCAAGGGCCAAAGCTCAAATGCCACCATAGAACGACTGTCCATGA
CAAGATATTTCTACCTCTTTCCTGGCAATTGAAAATGGAAGCCACAAGCAGCCCAGCCCTCCTTAATCAACTTCA
AGGAGCACCTTCATTAGTACAGCTTGCATATTTAACATTTTGTATTTCAATAAAAGTGAAGACAAACG

1612/2825
FIGURE 1434

MEAGPPESGESTDALKLCPHEEFLRLCKERAEETIPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELL
EGLDYSVDVEENLTARDMESALRAFATRPEHKSSDSTFLVLSHGILEGICGTVHDEKKPDVLLYDTIFQIFNNR
NCLSLKDKPKVIIVQACRGANRGELWVRDSPASLEVASSQSENLEEDAVYKTHVEKDFIAFCSSTPHNVSWRDS
TMGSIFITQLITCFQKYSWCCHLEEVFRKVQQS FETPRAKAQMPTIERLSMTRYFYLFPGN

1613/2825
FIGURE 1435

CACGAGGAAGACGTGGATGGCGGGAATTCTCGCTTCTGGCCTGGGTGAGCTAGAAGGGAGAAGCAAGGACATTGG
AGTCCCTATCACCGGTTGCCTAGACAACCTTCATGGGAAGGCCCTTGGGAATCTGAGATGGAGCAGGCGAACCCCTT
TACGTCCAGATGGCGAGTCCAAAGGAGGTGTTTTAGCTCACTTGGAAAAGGCTAGAGACCCAAGTGAGCAGATCCC
GTAAACAGTCTGAAGAGCTGCAGAGCGTGCAGGCCCAGGAAGGTGCTCTTGGAACCAAGATTTCATAAACTAAGGC
GTCTGCGAGATGAGCTGAGGGCTGTGGTGCGGCACCGGCGAGCCAGCGTGAAAGCATGTATTGCCAATGTAGAAC
CCAACCAAACAGTGGAGATCAATGAGCAAGAAGCATTGGAAGAGAAAATTGGAATGTGAAAGCCATTCTGCAGG
CATATCATTTTACAGGCCTCAGTGGTAAACTGACCAGCCGAGGAGTTTGTGTCTGCATCAGTACTGCTTTTGAGG
GGAACCTATTGGATTCTTATTTTGTGGACCTTGTGCATACAGAAACCACTCCGGATACATCACCATTTCAGTCCCAG
TCTTCATTCCCCTGGAAGAGATAGCTGCAAAATATTTACAGACCAACATCCAGCACTTCCTGTTTCAGTCTCTGCG
AGTACCTGAATGCTTACTCTGGGAGGAAGTACCAGGCAGACCGGCTTCAGAGTGACTTTGCAGCCCTCCTGACTG
GGCCCTTGCAGAGAAACCCACTGTGTAACCTTGCTGTCACTTACTTACAACTGGATCCAGGGGGTCAGTCCTTCC
CGTTCTGTGCTAGATTGCTGTATAAGGACCTCACAGCAACTCTTCCCACTGACGTCACCGTGACATGTCAAGGAG
TGGAAGTATTATCCACTTCATGGGAGGAGCAACGAGCATCTCATGAACTCTGTTCTGTACGAAGCCCTTGCATC
AAGTGTTTGCCTCATTTACAAGAAAAGGAGAAAAGTTGGATATGAGTCTGGTCTCCTTAATAGATTGTTTTACTG
CACTGGGAGCACATCAGAGAAATAAATCCCCCTCCCCTGCCAGGTGAAAGGAAATATTGCACTTTCTGTTCTCA
TGAATAAGGGGACAGGAGTTCCAGAAGAACCTTTCAAGATGATCAGGAACACCAGGACGAGGGCCGTCTCACCTC
ACTCGGACCACATGGAGACCTCCCTTCAAAATGGGAGCCATGTCTTGCCCCACCAAGCCCTGTCTGAAGTGGAGC
TTCCCCGCCTGTGCTCCCTCCACAGTCCCGGAAAGCCAGCGGCAAAGGCAGCTTTGTCCAGCTCTGCCACCCCT
CCTGCTCACAGTGGTCAGGGCCCCCTCAGGGGCAAGGACGGCAGGGATTGGAACGAGGGCTCTGGAAGGACTGTTC
AGCCCTATGCCTAAGACCCCTATGCTGGGGACACTACAGGCACACAGAGGAATAGCAGGGCCACCCTCAGAGCTC
ACACATCCACGAACAAATGAAGGCTGAGGAGGTTTCTAAACCTAAAGTCCATGAGTGTGCACTTCAATCCAGGAA
GGTCGGGACTTCCTTCAGTTTCAAAAAATAAATTCTCCCTTCCGGTTTGGACTGTTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

1614/2825
FIGURE 1436

MEQANPLRPDGESKGGVLAHLERLETQVSRSRKQSEELQSVQAQEGALGTKIHKLRRRLRDELRAVVRHRRASVKA
CIANVEPNQTVEINEQEALEEKLENVKAILQAYHFTGLSGKLTSRGVCVCISTAFEGNLLDSYFVDLVIQKPLRI
HHHSVPVFIPLEEIAAKYLQTNIQHFLFSLCEYLNAYSGRKYQADRLQSDFAALLTGPLQRNPLCNLLSFTYKLD
PGGQSFFFCARLLYKDLTATLPTDVTVTTCQGVEVLSTSWEEQRASHETLCTKPLHQVFASFTRKGEKLDMSLVS

1615/2825
FIGURE 1437

GGGAGCCGCGCGGGAGCAGCGCAGCTACGGCGGGCGGCAGCGGCGGCGCGGTTGCGATTCCGAGCCGTTGAGACGC
CTCTGCGGCAGCTGGTGGCGCAGGTGGCTTGCGTGGACGCGGGTAGAGGCGACCGGCCAGCAACCGCAGCGTCGG
CGCCCGCGGCCCCGGCAGCAGGCGCGTCGGGACGCCCCGAGGCATCCTCCCCCGCCCGCGGGCCCCGGTAGCTGGG
CCCGCGTCCGCGCCCGCATCCCCGCGCCGCCGCATCTCCTCGCCGCTCCCCGGGCTTCGGACCCCCCGGTCTCGC
CCCCGGAAC**ATG**ACTCGCGATTTCAAACCTGGAGACCTCATCTTCGCCAAGATGAAAGGTTATCCCCATTGGCC
AGCTCGAGTAGACGAAGTTCCTGATGGAGCTGTAAAGCCACCCACAAACAAACTACCCATTTTCTTTTTTGAAC
TCATGAGACTGCTTTTTTAGGACCAAAGGATATATTTCTTACTCAGAAAATAAGGAAAAGTATGGCAAACCAA
TAAAAGAAAAGGTTTTAATGAAGGTTTATGGGAGATAGATAACAATCCAAAAGTGAAATTTTCAAGTCAACAGGC
AGCAACTAAACAATCAAATGCATCATCTGATGTTGAAGTTGAAGAAAAGGAAACTAGTGTTCAAAGGAAGATAC
CGACCATGAAGAAAAAGCCAGCAATGAGGATGTGACTAAAGCAGTTGACATAACTACTCCAAAAGTGCCAGAAG
GGGGAGAAAGAGAAAGGCAGAAAAACAAGTAGAACTGAGGAGGCAGGAGTAGTGACAACAGCAACAGCATCTGT
TAATCTAAAAGTGAGTCCTAAAAGAGGACGACCTGCAGCTACAGAAGTCAAGATTCCAAAACCAAGAGGCAGACC
CAAAATGGTAAAACAGCCCTGTCTTCAGAGAGTGACATCATTACTGAAGAGGACAAAAGTAAGAAAAAGGGGCA
AGAGGAAAAACAACCTAAAAGCAGCCTAAGAAGGATGAAGAGGGCCAGAAGGAAGAAGATAAGCCAAGAAAAGA
GCCGGATAAAAAAGAGGGGAAGAAAGAAGTTGAATCAAAAAGGAAAAATTTAGCTAAAACAGGGGTTACTTCAAC
CTCCGATTCTGAAGAAGAAGGAGATGATCAAGAAGGTGAAAAGAAGAGAAAAGGTGGGAGGAACTTTCAGACTGC
TCACAGAAGGAATATGCTGAAAGGCCAACATGAGAAAGAAGCAGCAGATCGAAAACGCAAGCAAGAGGAACAAAT
GGAACTGAGCAGCAGAATAAAGATGAAGGAAAGAAGCCAGAAGTTAAGAAAGTGGAGAAGAAGCGAGAAACATC
AATGGATTCTCGACTTCAAAGGATACATGCTGAGATTAAAAATTCACTCAAAATTGATAATCTTGATGTGAACAG
ATGCATTGAGGCCTTGGATGAACTTGCTTCACTTCAGGTCACAATGCAACAAGCTCAGAAACACACAGAGATGAT
TACTACACTGAAAAAATACGGCGATTCAAAGTTAGTCAGGTAATCATGAAAAGTCTACAATGTTGTATAACAA
GTTTAAGAACATGTTCTTGTTGGTGAAGGAGATTCCGTGATCACCCAAGTGCTGAATAAATCTCTTGCTGAACA
AAGACAGCATGAGGAAGCGAATAAAACCAAAGATCAAGGGGAAGAAAGGGCCAAACAAAAAGCTAGAGAAGGAACA
AACAGGGTCAAAGACTCTAAATGGAGGATCTGATGCTCAAGATGGTAATCAGCCACAACATAACGGGGAGAGCAA
TGAAGACAGCAAAGACAACCATGAAGCCAGCACGAAGAAAAAGCCATCCAGTGAAGAGAGAGAGACTGAAATATC
TCTGAAGGATTCTACACTAGATAACT**TAGG**TTGACATACCTGGAATATAGAGAACACTTGAGAAGTTTGTAATGGT
TTTCATTTGAAATAGACTGCTGGAAGTTTAAATTTTTATAAGCATAGGTTTGATGTTGAAAACCTTGTTTTGAGGG
AGAAAAATCCCTTTGTTTTAAAGTAAAGTAAACATTATCGCTAAGTGTAAGTTGTGCAGTATTAACAGCTACATTA
TACAGTAAATGTGGGATAAAATCCATTTAGAAAATGTTAAACTGCTTTTCCAGACATGGTTGTAGCATATTTCA
ATTAGTGTGTGTATGTTAATGTGTAATTGATAGTAGAACAAGTTACATTTTTTAAACTGCTACTTGTATAAACC
TTGCCCTCTTTTCCCAAATACTGTGGGTTTTGTGCATAGTTTTTACAAACCTTGGATTTACCAGACTGTCTTTTCA
CTGTTTGTGGGTTTTGTAGAAGTTACACATTTTTATGGTAGATAAAATGTTACTTCTATACAAGTACTCACTCCC
TTTTTATCAAAAGTTAATTTTAACTCTCACAGTCTACATTGTGCTACATTATCCAGCTTCTTTGGAACAATGTGTG
CTCTGTATGGTTTTTTTTGGTATGACAACATAATTAAGCAACTGACATTGAACTGAGAATTCTACAAACTATAAAA
CATTAAATTTTGAAGGTAATTTAGTTTTGTGGCTGGGCATTCAAGTGAAGTCTTAGGACTTCTTTGCAGACAACCTG
ACTGGGTATATATAGGAATGAATCTGGCTTTAGGGTTAAATCATTTAAGGTCCTTTTATAGGCAGGCACTAGTAA
CTAAAACCTGAAAACCTAAGTAAGTTTATTTTTGAGGAATGTTGTTAAAAATGTCTTTAGGAAGTCACTAAAACCTTA
ATTGGAAGAAAAAATCATGATGCTTATACAATAAATATGAATAAATGTTATATAAGGAAACTCACCTATTTGAAA
TCATGGCTATATTGTTTTTATTTCTAGATTCCAAAATACAAACACTAGTTGTTCCAGCATTGTACTTTGATAA
GTCTGTACATTGACGTGTATGGACTAAATCCAGGGTAAAAATCAATGTTACAAAATTTAAGGGTATGTTAACTAAA
GGATAGCATTCTAAGATATTTGAATATTAGGGTCATTTGGCACTTCTCAGCAAGTAGGATACTTCTCATGTTT
TTGAAATTATATGAATATGGAAAAAATGGCTTAAGACCAGCGTCTCTGTATGACATTGTGTGGTTGACCCCTCTG
AGATAACTGTTTTCATCTACAGAATTGCATTTTTGCTTTTAAAGAGGTCTTATAATGGAACCTAGGAATCACCGTT
TTGAGAGAACCTGCATATATACCAGTCATTATCTGTTTGGTCTTTATACAGTTTTAACTTACTTAGATTTATTCT
AGTTAAGCCATAAGTTCAACGTGTAAACTTGTTTTTCATTAAAGAATTTTTCTATCAAAAAAAAAAAAAAAAAAAAA
AA

1616/2825
FIGURE 1438

MTRDFKPGDLIFAKMKGYPHWPARVDEVPDGAVKPPTNKLPIFFFGTHETAFLGPKDIFPYSENKEYGKPNKRK
GFNEGLWEIDNNPKVKFSSQQAATKQSNASSDVEVEEKETSVSKEDTDHEEKASNEVDTKAVDITTPKAARRGRK
RKAQKQVETEEAGVTTATASVNLKVSPKRGPAATEVKIPKPRGRPKMVKQPCPSESDIITEEDKSKKKGQEEK
QPKKQPKKDEEGQKEEDKPRKEPDKKEGKKEVESKRKNLAKTGVTSTSDSEEEGDDQEGEKKRKGGRNFQTAHRR
NMLKGQHEKEAADRKRKQEEQMETEQQNKDEGKKPEVKKVEKKRETSMD SRLQRIHAEIKNSLKIDNLDVNRCE
ALDELASLQVTMQQAQKHEMITTLKKIRRFKVSQVIMEKSTMLYNKFKNMFLVGEGDSVITQVLNKS LAEQRQH
EEANKTKDQGKKGPNKKLEKEQTGSKTLNGGSDAQDGNQPQHNGESNEDSKDNHEASTKKKPSSEERETEISLKD
STLDN

1617/2825
FIGURE 1439

GGCACGAGGCTGTGCTCCCGGCGCTGACGTGTCTGGGCGGTCGGCTTCCACTCCTTCAGGCGTCGGCAGCCACTA
GTCGTGGCGAGAGGGGCGGGGTGGCCGGGGCTGGCGCTCCACTTGGCCCCGCTCCCGGCCCCGCCGCCGC
GGCCCCCGGATGAGGGTATATATTTCGGAGCGAGCGCGGGACGCCGATGAGTGGCCGCGCGGAAGGAGCTGGAGA
CGGTCTAGCTGCGGTGCGCGCCGAGAAAGGTTTACAGGTACATACATTACACCCCTATTTCTACAAAGCTTGGCT
ATTAGAGCATT**ATGA**ACATTAATGACCTCAAACCTCACGTTGTCCAAAGCTGGGCAAGAGCACCTACTACGTTTCT
GGAATGAGCTTGAAGAAGCCCCAACAGGTAGAACTTTATGCAGAGCTCCAGGCCATGAACTTTGAGGAGCTGAACT
TCTTTTTCCAAAGGCCATTGAAGGTTTTAAACAGTCTTCTTACCAAAGAATGTGGATGCACGAATGGAACCTG
TGCTTCGAGAGGTATTAGGCAGTGCTACAAGGGATCAAGATCAGCTCCAGGCCTGGGAAAGTGAAGGACTTTTCC
AGATTTCTCAGAATAAAGTAGCAGTTCTTCTCTAGCTGGTGGGCAGGGGACAAGACTCGGCCTTGCATATCCTA
AGGGGATGTATGATGTTGGTTTGCCATCCCGTAAGACACTTTTTTCAGATTCAAGCAGAGCGTATCCTGAAGCTAC
AGCAGGTTGCTGAAAAATATTATGGCAACAAATGCATTATTCATGGTATATAATGACCAGTGGCAGAACAATGG
AATCTACAAAGGAGTTCTTACCAAGCACAAAGTACTTTGGTTTTAAAAAAGAGAATGTAATCTTTTTTCAGCAAG
GAATGCTCCCCGCCATGAGTTTTGATGGGAAAATTATTTTGGAAGAGAAGAACAAGTTTCTATGGCTCCAGATG
GGAATGGTGGTCTTTATCGGGCACTTGACGCCCAGAATATTGTGGAGGATATGGAGCAAAGAGGCATTGGAGCA
TTCATGTCTATTGTGTTGACAACATATTAGTAAAAGTGGCAGACCCACGGTTCATTGGATTTTGCATTCAGAAAG
GAGCAGACTGTGGAGCAAAGGTGGTAGAGAAAACGAACCCTACAGAACCAGTTGGAGTGGTTTGCCGAGTGGATG
GAGTTTACCAGGTGGTAGAATATAGTGAGATTTCCCTGGCAACAGCTCAAAAACGAAGCTCAGACGGACGACTGC
TGTTCAATGCGGGGAACATTGCCAACCATTTCTTCACTGTACCATTTCTGAGAGATGTTGTCAATGTTTATGAAC
CTCAGTTGCAGCACCATGTGGCTCAAAAGAAGATTCCTTATGTGGATACCCAAGGACAGTTAATTAAGCCAGACA
AACCCAATGGAATAAAGATGGAAAAATTTGTCTTTGACATCTTCCAGTTTGCAAAGAAGTTTGTGGTATATGAAG
TATTGCGAGAAGATGAGTTTTCCCCACTAAAGAATGCTGATAGTCAGAATGGGAAAGACAACCCTACTACTGCAA
GGCATGCTTTGATGTCCCTTCATCATTGCTGGGTCTCAATGCAGGGGGCCATTTTCATAGATGAAAAATGGCTCTC
GCCTTCCAGCAATTCCCCGCTTGAAGGATGCCAATGATGTACCAATCCAATGTGAAATCTCTCTCTTATCTCCT
ATGCTGGAGAAGGATTAGAAAGTTATGTGGCAGATAAAGAATTCCATGCACCTCTAATCATCGATGAGAATGGAG
TTCATGAGCTGGTGAAAAATGGTATT**TGA**ACCAGATACCAAGTTTTGTTTGCCACGATAGGAATAGCTTTTATTT
TTGATAGACCAACTGTGAACCTACAAGACGTCTTGGACAACCTGAAGTTTAAATATCCACAGGGTTTTATTTTGCT
TGTTGAACTCTTAGAGCTATTGCAAACCTTCCCAAGATCCAGATGACTGAATTTTCAGATAGCATTTTTATGATTCC
CAACTCATTGAAGGTCTTATTTATATAATTTTTTCCAAGCCAAGGAGACCATTGGCCATCCAGGAAATTTCTGAC
AGCTGAAATATAGGCAGGATGTTCAACATCAGTTTACTTGCAGCTGGAAGCATTGTGTTTTGAAGTTGTACATAG
TAATAATATGTCATTGTACATGTTGAAAGGTTTCTATGGTACTAAAAGTTTGTGTTTTATTTATCAAACATTAAGC
TTTTTTAAGAAAATAATTGGGCAGTGAAATAAATGTATCTTCTGTCTCTGGAAAAA

1618/2825
FIGURE 1440

MNINDLKLTLISKAGQEHLRLFWNELEEAQQVELYAEIQAMNFEELNFFFQKAIEGFNQSSYQKNVDARMEPVPRE
VLGSATRDQDQLQAWSEGLFQISQNKVAVLLLAGGQGTRLGVAYPKGMYDVGLPSRKTLFQIQAEIRILKLQQVA
EKYYGNKCIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLPAMSF DGKIILEEKNKVS MAPDGNGG
LYRALAAQNIVEDMEQ RGIWSIHVYCVDN ILVKVADPRFIGFCIQKGADCGAKVVEKTNPT EPVGVVCRVDGVYQ
VVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVPFLRDVVNVYEPQLQHHVAQKKIPYVDTQGQLIKPDKPNG
IKMEKFVFDIFQFAKKFVVYEVLRDEF SPLKNADSQNGKDNPTTARHALMSLHHCWVLNAGGHFIDENG SRLPA
IPRLKDANDVPIQCEISPLISYAGEGLESYVADKEFHAPLIIDENG VHEL VKNGI

1619/2825
FIGURE 1441

TGCTGCTGTCCTGGAGGGAAATGGAGCAGGCTGTGGAGCTCTGTGGGCGGGTAGGAGACTCATTGTTGGGTTTCGGA
 ACTTACCAAGGGGGTGAGATTTTGTGCTCCCACTTTTCACTTTCTCATCAAACACTGGGTCGATCTCTGTCAAAA
 ATCAGGTGTTCTCACCATGCTTTGAGCTTAACTGGACCAGCTGAAAAGAGGCCAAGAGAGTAGCCAGTGAAGGG
 AGCCCCCTCTGTGGCCAGATGCAAGAGCTGCATGAATGGACAGAGATGGTCCAGGTTTAAATAAGAAGCAAGGGTT
 AGGTTCCCTTGGGGAAAAGCCAAGACCATTTCCTGTTAGGAAGGGCATTGGATGGATGATCAACACTCCCTCTTG
 TCGAAGGTTTTTGAATAATTTGTTGGGATGCTAAATCCATAGGAAATAAAAGGTCTAGGCAGAAAGTCTCAGGG
 CAGCGTAAATCAGATGTCACCAAAAAAGTTAATTATGAAGGCAAAGGAAATACATGTGACTTAATGAACCTCAC
 ACAAACCTGAAGGTTGAAGTCAGGCTCCGGGGCTTTTTCTGGACTTATCCTCTGTTTTCCCTGTGTACTTGGGC
 AAGGATCTTCACCTGTGTCTTAGTATCGATTTTTATGAATCAGTACTGATGGAGTATATGTGTGTTAATGGTGA
 ATATTAACCATAGAAGGGCTGAGTGCTCCTCCCCATCTTGGGACTCATAATCTGTGAAATAAAACAGTCTGGGCC
 TCCCTGCCCCGGGTAGCATCAGGATAGACAGATGAAGAGAAGAGAAAGTAATGTGTCTTGGGCATCTTCTGTATGC
 CAGGCACCATGCCAGAGGCTTTAAGTACTTCATCTTACTTGACTCCTCAGATGGCCCTGTTAGAAGCCTATTTTA
 TGCAAAAGGAAACTGTAGCTGGGGGTAAAGTAACTTGCCAAGGGGTACACAGCTAGAAAGCGGTGGACCCTAGAT
 GCAGGCGCAGGGCATTGAGACCCACAGTCCACATTCTTTGAGCCAGTCCATTGAGGGTCTCAGGGAATGTGG
 CGGGTCCCCTGCTCTCGCTCCCCCGCAGATCTTGCACTCTCAGCATGCGCTACCACATCAGTTGACATTAGCACA
 GCTTTTCCATTAGGAGAACGAAGTGAAGTCTCTGGTAGAACGGATGATGGCTCTGCAGACCGACATTGTGGACTT
 ACAGAGGAGCCCCATGGGCCGGAAGCAGGGGGGAACGCTGGACGACCTAGAGGAGCAAGCAAGGGAGCTGTACAG
 GAGACTAAGGGAAAAACCTCGAGACCAGCGAACTGAGGGTGACAGTCAGGAAATGGTACGGCTGCTGCTTCAGGC
 AATTGAGAGCTTCGAGAAGAAAGTGCAGTGATCTATACGCAGCTCAGTAAACTGTGGTTTGAAGCAGAAGGC
 GCTGGAAGTGTGCCCCAAGGTGGAAGAGGTGGTGAGCTTAATGAATGAGGATGAGAAGACTGTTGTCCGGCTGCA
 GGAGAAGCGGCAGAAGGAGCTCTGGAATCTCCTGAAGATTGCTTGTAGCAAGGTCCGTGGTCTGTGAGTGAAG
 CCCGGATAGCATGAATGCCTCTCGACTTAGCCAGCCTGGGCAGCTGATGTCTCAGCCCTCCACGGCCTCCAACAG
 CTTACCTGAGCCAGCCAAGAAGAGTGAAGAACTGGTGCTGAAGCACATAACCTCTGCACCCTGCTAGAAAATGC
 CATAAGGACACTGTGAGGGAAACAAGACCAGAGTTTACGGCCCTAGACTGGAGCTGGTTACAGACGGAAGAAGA
 AGAGCACAGCTGCCTGGAGCAGGCCTCATGATGTGGGGGGACTCGACCCCTGACATGGGGCAGCCCATAGCAGG
 CTTGTGTGGGTGGGGGGACTCGACCCCTGACATGGGGCTGCCTGGAGCAGGCCGCGTGACGTGGGGCTGCCTGG
 CCGCGGCTCTCAGATGGTGGTTCTGTGCACTGATGGCCCAGGGGTCTCTGGTATCCAGATGGAGCTCTCGCTT
 CCTCAGCAGCTGTGACTTTCACCCAGGACCCAGGACGCGAGCCCTCCGTGGGCACTGCCGGCGCCTTGTCTGCACA
 CTGGAGGTCTCCATTACAGAGGCCAGCGCACATCGCTGGCCCCACAAACGTTTCAAGGGGTACAGCCATGGCAGC
 TCCTTCCTCTGCCGTGAGAAAAGTGCTTGGAGTACGGTTTGCCACACACGTGACTGGACAGTGTCCAATTCAAAT
 CTTTCAGGGCAGAGTCCGAGCAGCGTTGGTGACAGCCTGTCTCTCCTGCTCTCCAAAGGCCCTGCTCCCTGTC
 CTCTCTCACTTTACAGCTTGTGTTTTCTTCTGGATTGAGCTTCTCTAAACAGACAGTTTAATTATAGTTGCGGCC
 TGGCCCCATCCTCACTTCTCTTTTATTTTACTGCTGCTAAATTTGTGTTTTTACCTACTACTTTGGTGGTTGT
 CCTCTTTTCGGCAAAGTTGGAGCGAGTGCCAAGCTCTCCATCTGTGGTCTTCTGCCAAGAGCGACTCATAGTA
 ACCAGGATGGGAGAGCAGCTGCCTTATTCTGAATCCCAAAAATTACTTGGGGGTGATTGTCACAGAGGAGGGACA
 GAAAGGGTATCTGCTGACCACCAGCCTGCCTACCCATGCCATGTCTCCATTCTGCTCAAGCGTGTGTGCTGGG
 CCGGGGAGTCCCTGTCTCTCACAGCATCTAGCAGTATTATTAATGGATTCAATTTAAAAATAGCTCCTATATTT
 TGTAACATGTCTCAAACACTCATACTGGGTTCACAATCCACTGTTAGAATACCTATGGTTAGGGCTTCTGAACT
 AAAATAATGGAATTTTAAACAATTGTATAGTGCCTGGATCATTACTAGTGCCATAACCTGCTTCTTCAACAT
 TTCACAGAACTTCTCTTTTATATAAAGGCAAGAGCACAAAATGAGTTCAGATGATCACAAACAGGTGAGTTTTGT
 TGGAGAAGAAAGTTGGAGTAGGAGACTTTCACAAGTGGTTTCCATGGAGATAGAATGAAGCATTCTGTGGTCAAG
 TAAGTTTAGGGAGCTATTCATGTTTCACTTGCTTTGTGGAGATTACACTATGCACTGGGAAAGTATCTGAAAAG
 TCTTATAATAAAGAAACAGGCTTAACTTTGTGTAAGAACTGTTTATCAATGTCAATTTGGCTATAGAAACATTT
 TCTCCTGCTGATTGTGTGTGTGAAACATGTATTAACATTCGAATGAAGTACATTTAATAAAGCACAAATTTTGA
 AACCCTGGTAAATGACAGTGGGAAAATAACACCCGAAAGGCAAGGACGGGCAGATTGGGGAGGGAAAGGATGTTGG
 GCTAAGGGCTGTGAGCTTATGTTACAGGCAACTGAGCCACTGAAGAATTTTGACGAAGAAAATGCCAACCAAAGC
 AGTCATTTTAAAGTTTATGGCTGTTTCAAGTACAGGACAAGTTGTGAAAAGAAAGAAAAAAATGG

1620/2825
FIGURE 1442

MMALQTDIVDLQRSPMGRKQGGTLDDLEEQAARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEKKVRVIYTQ
LSKTVVCKQKALELLPKVEEVVSLMNEDEKTVVRLQEKROKELWNLLKIACSKVRGPVSGSPDSMNASRLSQPGQ
LMSQFSTASNSLPEPAKKSEELVAEAHNLCTLLENAIQDTVREQDQSFTALDWSWLQTEEEEHSCLEQAS

1621/2825
FIGURE 1443

GAGCCCAGCCGAGCGTCCGCCGCTGCCCCTGCGCCTCTGCGCTCCGCGCC**ATG**GCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGGCGGAGAAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTGAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACCTTAAGTGTATAT**TAAG**CAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTCTCTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCTTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCCAGTATCTAGTCGTGGATATAATTAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACCTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGTCTTCGCCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTCGAGACCAGCCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTCAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

1622/2825
FIGURE 1444

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVIENTRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERA EVS
ELKCGDLEEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLTDQTLNELNCI

1623/2825
FIGURE 1445A

CGGCCGCGAGCGCAGTGGTGTGGAGCGCGCCGGGTCCCGGAGCCGGCTGTCTGAGGG**ATGG**ACGAGACGAGCCCA
CTAGTGTCCCCGAGCGGGCCCAACCCCCGACTACACCTTCCCGTCGGGCTCGGGCGCTCACTTTCCGCAGGTG
CCCGGGGGCGCGGTCCGAGTGGCGGGCGGCGGCCGGCTCGGGCCCCCTCTCCGCCAGGCTCGCCGGGGCCACGACCGC
GAGCGGCAGCCACTGTTGGATCGGGCCCCGGGCGCGGCGGCCAGGGCCAGACCCAAACCGTGCGGGCGCAGGGCC
CAGGCTCTGGCCGCTCAGGCCGCGGGCGGCAGCCCACGCCGCTCAGGCCACCGCGAGCGGAACGAGTTCCCGGAG
GATCCTGAGTTCGAGGCGGTGGTGCGGCAGGCCGAGCTGGCCATCGAGCGCTGCATCTTTCCCGAGCGCATCTAC
CAGGGCTCCAGCGGAAGCTACTTCGTCAAGGACCCCTCAGGGGAGGATCATTGCTGTCTTCAAACCCAAAGAATGAA
GAGCCCTATGGGCATCTTAATCCTAAGTGGACCAAGTGGCTGCAGAAGCTGTGCTGTCTTGAACCCAAAGAATGAA
GACTGCCTTGTCTTAACCAGGGCTATCTCTCAGAAGCAGGGGCCAGCCTGGTGGACCAAAAACCTGGAACCTCAAC
ATTGTTCCCCGTACAAAGGTAGTATACCTGGCCAGTGAGACCTTCAACTATAGTGCCATTGACCGAGTGAAGTCC
AGGGGCAAGCGGCTTGCACTAGAGAAAGTGCCAAAAGTTGGACAGCGGTTTAACCGCATCGGGCTACCACCAAAG
GTTGGTTCATTCCAGCTCTTTGTTGAAGGCTACAAAGATGCAGACTATTGGCTGCGGCGTTTTGAAGCAGAACCT
CTTCTGAGAACATAACCGGCAACTACTGCTCCAGTTTGAGCGGTTGGTGGTGTCTGGATTACATCATCCGCAAC
ACTGATCGAGGCAATGACAACCTGGCTGATTAAATATGACTGTCCAATGGATAGTTCTAGCTCTCGGGACACAGAC
TGGGTGGTGGTGAAGGAGCCTGTTATCAAGGTGGCTGCCATAGACAATGGGCTGGCCTTCCCACTGAAGCATCCT
GACTCCTGGAGGGCATATCCTTTTTACTGGGCTGGTTGCCCCAGGCGAAAGTCCCATTTTCTCAGGAGATCAAA
GATCTGATCCTTCCAAAGATATCGGACCCTAACCTCGTCAAGGACTTGGAAGAGGACCTATATGAACTCTTCAAG
AAAGATCCTGGTTTCGACAGGGGCCAGTTCATAAGCAGATTGCTGTCTATGCGGGGCCAGATCTTAAATCTGACC
CAGGCCCTTGAAAGACAACAAGAGTCCCCTGCACCTCGTCCAGATGCCACCTGTGATTGTGAGACGGCCCCGTTCC
CACCAGCGGTCTTCTAGCGAGTCCTACACACAGAGCTTTCAGAGCCGGAAGCCCTTCTTTTCATGGTGGT**TAGCTC**
CAGAGGCAGGCAGAGGAAATATTGTGAGAGACTGGTGGGAGGAAGCCTGGGGAGTGGGGTGCAGGAAAAGCCAGA
GAAGCCGGTGGAGAGCAGCACCTTTAAGAGCCCTCTCTCTGCTTGCCACCCTGCTCAGAGCTTTCCACCCACA
GGGAGAAGCACAAATCAGGAACAGTGAGTGCTCCTCGCCCTTCTGATGTGGGGAGGCTGGAGCTCCATGCACGTA
GTCCAGATGCCTGGGAAGGAACATCTCCCTTCCAGCATCTGCTGGTAGCAGGCTGGGACAGTCCCTTCCTTCCCT
GAAAACCTGCTCTATTGCAATTCCCTATTATATTCTGCATCAGAAAAACAAACAAAAACAAAAACAACTTTAAATG
CTTGTAGCAGAACCCCGGTTCATCTCATGTGAGAAACCTTTAATCCAGGCCTAAATTTGCATAGACCTGACATTC
AGCTGCCTTGCAGTTGCTTCTCCCATGAGCCAAGGTGGTGTGAGAGGGCAACTGGATGACTCGCAGTACCACAG
CACTGGGACAGACAGAAGCCACACCTTTCTTTTGGGTTTTTGCCAAGCCTCCTCCATCTCCCATCAGTGCTGTGG
GCTGGCTGCAAGCCTCGAAACAGTTCTCCTGGAAGGGAGGTTTTTGCTTTACCCCCGCCAGCACTTCCGCACACA
ATCATAGAGAACCTCTCTGCTCTCTGCTGGCCTACAGCTTGTCTGTTTCTCAAGCAGAGGCAGGAAGAGCTAGTC
TTAGCATTATATTTTTAATAGGAAGTTGACTCCAGCATGTAAAAGTGATCCACGCAGCCGGAGTGATGCCGGG
AGCTAAGTGGTCTATGGGTGAACATATCCACCTTGCTTCTGAGTCCCTGGTCCCAATCTTCTCATTTGTTCCT
CTCGTTTTAAATTTTTTCCCCCAACTCTTTTGATGTAAGAGTTTCAAGTTTGTCTTCGGGAGTGGGTCTCTGCAAG
GGCTCTGGGATGAGTCTTGGCTTCCAAGAGGACAGGCTATTAGTTTCTTGGACTTTTTTCTGTGCTACCGCTGCT
GCTTGGTGGAAAGTAACAGGACGTGGATTCTGCCTCATAAGTGGCAGTTTCCCTTTTCTCTGACTTGTCTTAGG
CCGATTTCTCTATGGCTTCCCTGAGAAAGGTGAGGCCCAAAGGAGAGAGGCCTTCAAACCTGTCCAGGTCTGCG
CAGCTCAGTGCGTATCTTCTTGTCTCCATGTGTCTTTCCCTGCTGCCTCACTCCCCACCCCCACTTGCCAGGT
GTTTGAGCCATTTCTACACCAAAGCAAAGTACGGCCTCAGGAGGGAGTAAAAAGGTGCCATCTGTGTCTGGAGG
GGCAGCTGTGTTTCATGCCCTGTGCTACTGGACATTTCACAATTCTGGCACCTTGCGATTGGTCAGTCAACCTCAG
AAAGTAACTATCTTGAAGTTTGAAAAACAACCAAAGAAAGGGAGTGAGGACTATGGCTGCATGTCTCTGCTTG
CCCGGCTGCAGAGCAGAGATGTGCAGCCCTCTGGTCAGCTGGTCCAGGCTGGTCCCCGCCGGTCCCCCTTCCAGTC
CAGCCACCAAGAGTCCACTTGTCCCGGGCTTCCACCTGGCTGACAGGAAGAATTTCTGAGAGCTGGATGTGCATG
CCCTGTGGACGAAGGTACAGCTCGCCTGCCTGCCCAATCCAGCCCCGACAATCACATGCAGCTGACTCGGACA
CTGGCCTTGGGAACAATGTTTCAGAGAACACTTGCCCCCTTGACTGTAGGAGCCAGAAGGGGACCCAGGTGTGCAT
AGCTCTCTGTAGACATTTTTTACCCAAACCTGTTGGTAAAGTGCCCATCTGGTGCTCAAGAGAGCCTGGGGGTCTA
ACAGGGAGCCCCGGTGCCTCACCTGGCCACAGCCTCCACACCAGATCTCCACATTGTCTTGATCCAGACCAGCTC
TGTGATCAGAAGGAAATTGGGTCCAGTGTAGGAGAGAGCTGGTCTGGGCTGGCAGGCAAGAGTGTGGGCATCC
TTTCTGGCCTTTTCTCCACTCTCCCTCAAGCCTGTGCTCAGGTTGCCCTGAATGTGGACTCTGGAAGAGCCAGGG

1624/2825
FIGURE 1445B

GCCCAGAATGCCGGGGGAGGCTTCTGAGTGGCACTCATGGAACACCGTCCCTCTGCCAGCCATAGGCCCTGCCTC
CAGTGT CAGGGAATGGAGGCTGGGCTGCGAGAGTGTTGCTGCCCCCTGTGTCATTCTTCTAATCCAATGTAGAAA
TTGTACGTAATGTATTTAAATCAACGCAAATGTATGAATAACAAATACAGTTCTGACCTTTTTTGTCCAGTTTCT
TTGGGGGAAGGAAGACAAAGAAGGTAGGAACGGAATTTTGAGGGCAAAGAAACCTGTGTTTCCATGGAATTGCTG
AGACGTGGCTCCTGGGGCTATTTCTCCCTAATAAAAGGATGATCCAGGTCTCATTTCCAAAGTCCCAATGCTCTG
AAAACCAAAGTATTTTCATAACCCATTTGAAACCAAACCTGACCTGAACTTACACTGATAGGAAGCTATGGGTA
ATTATGATGTGTTTCCTTTTAGTGTGATTCTTTGTTGCAGAAATGTCAATATATTTTATGACATGGTTCCTACTA
GGGATTATACAGTATTTGCTGACTACTTCCTAAGAGCCAAAAATAAAAAATCTGAATTCC

1625/2825
FIGURE 1446

MDETSPLVSPERAQPPDYTFPSGSGAHFPQVPGGAVRVAAAAGSGPSPPGSPGHDRERQPLLD RARGAAAQGQTQ
TVAAQAQALAAQAAAAAHAAQAHRENERNEFPEDPEFEAVVRQAELAIERCIFPERIYQGSSGSYFVKDPQGRI IAV
FKPKNEEPYGHLPKWKWLQKLCCPCCFGRDCLVLNQGYLSEAGASLVDQKLELNIVPRTKVVYLASETFNYS A
IDRVKSRGKRLALEKVPKVGQRFNRI GLPPKVG SFQLFVEGYKDADYWLRRFEAEPLPENTNRQ LLLQFERLVVL
DYIIRNTDRGNDNWLIK YDCPMDSSSRD TDWVVVKEPVIKVA AIDNGLAFPLKHPDSWRAYPFY WAWLPQAKVP
FSQEIKDLILPKISDPNFVKDLEEDLYELFKKDPGFDRGQFHKQIAVMRGQILNLTQALKDNKSPLHLVQMPPVI
VETARSHQRSSSESYTQSFQSRKPFFSWW

1626/2825
FIGURE 1447A

CGGCCGCGAGCGCAGTGGTGTGGAGCGCGCCGGGTCCCGGAGCCGGCTGTCTGAGGG**ATGG**ACGAGACGAGCCCA
CTAGTGTCCCCGAGCGGGCCCAACCCCGGACTACACCTTCCCGTCGGGCTCGGGCGCTCACTTTCCGCAGGTG
CCCGGGGGCGCGGTCCGAGTGGCGGGCGGCGGCGGCTCGGGCCCCCTCTCCGCCAGGCTCGCCGGGCCACGACCGC
GAGCGGCAGCCACTGTTGGATCGGGCCCCGGGGCGCGGCGGCCCAGGGCCAGACCCAAACCGTGGCGGCGCAGGCC
CAGGCTCTGGCCGCTCAGGCCGCGGCGGCAGCCACGCCGCTCAGGCCACC CGCAGCGGAACGAGTTCCCGGAG
GATCCTGAGTTCGAGGCGGTGGTGC GGCGAGGCCGAGCTGGCCATCGAGCGCTGCATCTTTCCCGAGCGCATCTAC
CAGGGCTCCAGCGGAAGCTACTTCGTCAAGGACCCCTCAGGGGAGGATCATTGCTGTCTTCAAACCCAAGAATGAA
GAGCCCTATGGGCATCTTAATCCTAAGTGGACCAAGTGGCTGCAGAAGCTGTGCTGTCTTGGCTGCTTTGGCCGT
GACTGCCTTGTCTTAACCAGGGCTATCTCTCAGAAGCAGGGGCCAGCCTGGTGGACCAAAAACTGGAACCAAC
ATTGTTCCCCGTACAAAGGTAGTATACCTGGCCAGTGAGACCTTCAACTATAGTGCCATTGACCGAGTGAAAGTCC
AGGGGCAAGCGGCTTGCACTAGAGAAAGTGCCAAAAGTTGGACAGCGGTTTAACCGCATCGGGCTACCACCAAAG
GTTGGTTCAATCCAGCTCTTTGTTGAAGGCTACAAAGATGCAGACTATTGGCTGCGGCGTTTTGAAGCAGAACCT
CTTCCTGAGAACAATAACCGGCAACTACTGCTCCAGTTTGAGCGGTTGGTGGTGTGCTGGATTACATCATCCGCAAC
ACTGATCGAGGCAATGACAACCTGGCTGATTAAATATGACTGTCCAATGGATAGTTCTAGCTCTCGGGACACAGAC
TGGGTGGTGGTGAAGGAGCCTGTTATCAAGGTGGCTGCCATAGACAATGGGCTGGCCTTCCCACTGAAGCATCCT
GACTCCTGGAGGGCATATCCTTTTTACTGGGCCTGGTTGCCCCAGGCGAAAGTCCCATTTTCTCAGGAGATCAAA
GATCTGATCCTTCCAAAGATATCGGACCCTAACTTCGTCAAGGACTTGGAAGAGGACCTATATGAACTCTTCAAG
AAAGATCCTGGTTTCGACAGGGGCCAGTTCCATAAGCAGATTGCTGTCAATGCGGGGCCAGATCTTAAATCTGACC
CAGGCCTTGAAAGACAACAAGAGTCCCCTGCACCTCGTCCAGATGCCACCTGTGATTGTGAGACCGGCCCGTTCC
CACCAGCGGTCTTCTAGCGAGTCCTACACACAGAGCTTTCAGAGCCGGAAGCCCTTCTTTTCATGGTGGT**TAG**CTC
CAGAGGCAGGCAGAGGAAATATTGTGAGAGACTGGTGGGAGGAAGCCTGGGGAGTGGGGTGCAGGAAAAAGCCAGA
GAAGCCGGTGGAGAGCAGCACCTTTAAGAGCCCTCTCTCTGCTTGCCACCCTGCTCAGAGCTTTCCACCCACA
GGGAGAAGCACAATCAGGAACAGTGAGTGCTCCTCGCCCTTCTGATGTGGGGGAGGCTGGAGCTCCATGCACGTA
GTCCAGATGCCTGGGAAGGAACATCTCCCTTCCAGCATCTGCTGGTAGCAGGCTGGGACAGTCCCTTCCCTTCCCT
GAAACCCTGCTCTATTGCAATTCCCTATTATATTCTGCATCAGAAAAACAAACAAAAACAAACTTTAAATG
CTTGTAGCAGAAACCCCGGTTCATCTCATGTGAGAAACCTTTAATCCAGGCCTAAATTTGCATAGACCTGACATTC
AGCTGCCTTGCAGTTGCTTCCCTCCCATGAGCCAAGGTGGTGTGAGAGGGCAACTGGATGACTCGCAGTACCACAG
CACTGGGACAGACAGAAGCCACACCTTTCTTTTGGGTTTTTGGCAAGCCTCCTCCATCTCCCATCAGTGCTGTGG
GCTGGCTGCAAGCCTCGAAACAGTTCTCCTGGAAGGGAGGTTTTTGTCTTTACCCCGCCAGCACTTCCGCACACA
ATCATAGAGAACCTCTCTGCTCTCTGCTGGCCTACAGCTTGTCTGTTTCTCAAGCAGAGGCAGGAAGAGCTAGTC
TTAGCATTTATATTTTAAATAGGAAGTTGACTCCAGCATGTAAAAGTGATCCACGCAGCCGGAGTGATGCCGGG
AGCTAAGTGGTCTATGGGTGAACATATCCACCTTGCTTCCCTGAGTCCTTGGTCCCAATCTTCTCATTTGTTCCT
CTCGTTTTAAATTTTTTCCCCCAACTCTTTTGATGTAAGAGTTCAAGTTTGTCTTCGGGAGTGGGTCTCTGCAAG
GGCTCTGGGATGAGTCTTGCTTCCAAGAGGACAGGCTATTAGGTTCTTGACTTTTTTCTGTGCTACCGCTGCT
GCTTGGTGGAAAGTAACAGGACGTGGATTCTGCCTCATAAGTGGCAGTTTCCCTTTTCTCTGACTTGTCTTAGG
CCGATTTCTCTATGGCTTCCCTGAGAAAGGTGAGGCCCAAAGGAGAGAGGCCTTCAAACGTCCAGGTCTGCG
CAGCTCAGTGCGTATCTTCTTGCTTCCATGTGTCTTTTCCCTGCTGCCTCACTCCCCACCCCACTTGCCAGGT
GTTTGAGCCATTTCTACACCAAAGCAAAGTACGGCCTCAGGAGGGAGTAAAAAGGTGCCATCTGTGTCTGGAGG
GGCAGCTGTGTTTCATGCCCTGTGCTACTGGACATTTACAATTCTGGCACCTTGCGATTGGTCAGTCAACCTCAG
AAAGTAACTATCTTGAAGGTTTGA AAAACAACCAAAGAAAGGGAGTGAGGACTATGGCTGCATGTCTCTGCTTG
CCCGGCTGCAGAGCAGAGATGTGCAGCCCTCTGGTCAGCTGGTCCAGGCTGGTCCCCGCGGTTCCCTTCCAGTC
CAGCCACCAAGAGTCCACTTGTCCCGGGCTTCCACCTGGCTGACAGGAAGAATTTCTGAGAGCTGGATGTGCATG
CCCTGTGGACGAAGGTACAGCTCGCCTGCCTGCCCAATCCAGCCCCGACAATCACATGCAGCTGACTCGGACA
CTGGCCTTGGGAACAATGTTTCGAGAGAACTTGCCCCCTTGACTGTAGGAGCCAGAAGGGGACCCAGGTGTGCAT
AGCTCTCTGTAGACATTTTACCCAAACCTGTTGGTAAAGTGCCCATCTGGTGCTCAAGAGAGCCTGGGGGTCTA
ACAGGGAGCCCGGCTGCCTCACCTGGCCACAGCCTCCACACCAGATCTCCACATTGTCTTGATCCAGACCAGCTC
TGTGATCAGAAGGAAATGGGTCCAGTGTAGGAGAGAGCTGGTCTGGGCTGGCAGGCAAGAGTGTGGGCATCC
TTTCTGGCCTTTCTCCACTCTCCCTCAAGCCTGTGCTCAGGTTGCCTTGAATGTGGACTCTGGAAGAGCCAGGG

1627/2825
FIGURE 1447B

GCCCAGAATGCCGGGGGAGGCTTCTGAGTGGCACTCATGGAACACCGTCCCTCTGCCAGCCATAGGCCCTGCCTC
CAGTGT CAGGGAATGGAGGCTGGGCTGCGAGAGTGTTGCTGCCCCCTGTGTCATTCTTCTAATCCAATGTAGAAA
TTGTACGTAATGTATTTAAATCAACGCAAATGTATGAATAACAAATACAGTTCTGACCTTTTTTGTCCAGTTTCT
TTGGGGGAAGGAAGACAAAGAAGGTAGGAACGGAATTTTGAGGGCAAAGAAACCTGTGTTTCCATGGAATTGCTG
AGACGTGGCTCCTGGGGCTATTTCTCCCTAATAAAAGGATGATCCAGGTCCCTCATTTCCAAAGTCCCAATGCTCTG
AAAACCAAAGTATTTTCATAACCCATTTGAAACCAAACCTGACCTGAACTTACACTGATAGGAAGCTATGGGTA
ATTATGATGTGTTCCCTTTTAGTGTGATTCTTTGTTGCAGAAATGTCAATATATTTTATGACATGGTTCCTACTA
GGGATTATACAGTATTTGCTGACTACTTCCTAAGAGCCAAAAATAAAAAATCTGAATTCC

1628/2825
FIGURE 1448

MDETSPLVSPERAQPPDYTFPSGSGAHFPQVPGGAVRVAAAAGSGPSPPGSPGHDRERQPLLDRAARGAAAQGQTQ
TVAAQAQALAAQAAAAAHAAQAHRENERNEFPEDPEFEAVVRQAELAIERCIFPERIYQGSSGSYFVKDPQGRIIAV
FKPKNEEPYGHLPKWKWLQKLCCPCCFGRDCLVLNQGYLSEAGASLVDQKLELNIVPRTKVVYLASETFNYS
IDRVKSRGKRLALEKVPKVGQRFNRIGLPPKVGSFQLFVEGYKDADYWLRRFEAEPLPENTNRQLLLQFERLVVL
DYIIRNTDRGNDNWLKIDCPMDSSSRD TDWVVKEPVIKVAIDNGLAFPLKHPDSWRAYPFYWAWLPQAKVP
FSQEIKDLILPKISDPNFVKDLEEDLYELFKKDFGFDRGQFHKQIAVMRGQILNLTQALKDNKSPLHLVQMPFVI
VETARSHQRSSSESYTQSFQSRKPFFSWW

1629/2825
FIGURE 1449A

ATCTTTTTTTCATCTTCTAGCTGTAGCTCGGGCTGCTTGTCTGGCTTGGCTCCCCCTCCCCCTTTGCTCTCTGCCT
CGTCTTTTCCCAGGACTTTCGCTATTTTGTCTTTTTTAAAAAAGGCAAGAAAGAACTAAACTCCCCCTCCCTCTC
CTCCAGTCGGGCTGCACCTCTGCCTTGCACTTTGCACAGAGGTAGAGAGCGCGCGAGGGGAGAGAGAGGAAAGAAA
AAAAATAATAAAGAGAGCCAAGCAGAAGAGGAGGCGAGAAGCATGAAGTGTTAACTCCCCCGTGCCAAGGCCCGC
GCCGCCCGGACAGACGCCCCGCGCGCTTCCAGCCCCGAGCGGACGCCGCGCGCCGCCCTGCCTGCAGCCCCGGG
CGGCGACGGCGAGCCCTTCCCTTATGCAAAGCGCGCCAGCAGCGCAAGGCGGGACGCCGCGCACCGGGCCGGGCT
CCTCCAGCTTCGCCGCCGAGCCACCACCGCCGCCACCGCAGCTCGCGGAGGATCTTCCCCGAGCCTGAAGCCGCC
GGCTCGGCGCGCAAGGAGGCGAGCGCAAGGAGGGGCGGGGCGAGCGAGGGAGCACATTGGCGTGAGCAGGGGGG
AGGGAGGGCGGGCGCGGGGGGCGGGGCGAGGGCGGGGGGTGTGTGTGTGAGCGCGCTTGGAGGTTTCGGGCCAG
CCACCGCCGCGCAAGCTAGAAGCGCCCCAGCCCGCAAGCTGGCTCACCCTGCGCCACCCAGCACAGCCCGCTG
GCCCTCTCCTGCAGCCCATCTGGCGGAGCGCGCGCGCGCGGGCGGCGGCGAGGAGAATGGCATCAGAACTGGCA
ATGAGCAACTCCGACCTGCCCACCAGTCCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTTGAA
GTGAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGCGGCCGTCTCATCGCCGGGGGCTCGCTGTCC
TCCACCCCATGAGCACGCCGTGCAGCTCGGTGCCCTTCCCCAGCTTCTCGGCGCCCAGCCGGGCTCGGGC
AGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACCGGCTACCCGCGAGCAGCTGAACCCCGAGGCGCTG
GGCTTCAGCCCCGAGGACGCGGTGAGGCGCTCATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTAC
GCGCGCGGGGCGCAGCAGCTGGCCGCGGCGCGCGGGGCGGTGCCGCGCCTCCTTGGGCGGCAGCGGCGAGGAG
ATGGGCCCCGCGGCGCGCTGGTGTCCGCGTGATCGCCGCGGCGCGCGCAGAGCGGCGCGGGCCCCGCACTAC
CACCACCACCACCACGCGCGCGGCCACCACCACCACCCGACGGCGGCGCGCCCGGCGCGGCGGGCAGCGCG
GCCGCTCGGCGGTGGCGCTGGGGGCGCGGGCGGCGGTGGCCCGGCCAGCGCTGGGGGCGGCGGCGGCGGCGG
GGCGGCGGAGGCGGCGGGGGCGGCGGGGGCGGGGGCGCCCTGCACCCGCACCACGCCGCCGGCGGCTGCAC
TTCGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGCAGCTGAACCGGCAGCTGCGCGGGGTC
AGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCCTGAAAAACCGCGGCTATGCCAGTCTCGCCG
TTCAAGAGGGTGCAGCAGAGACACGTCTTGAGTTCGGAGAAGAACCAGCTGCTGCAGCAAGTCGACCACCTCAAG
CAGGAGATCTCCAGGCTGGTGCAGCAGAGGGACCGGTACAAGGAGAAATACGAGAAGTTGGTGAGCAGCGGCTTC
CGAGAAAACGGCTCGAGCAGCGACAACCCGTCTCTCCCGAGTTTTTTCATGTGAGTCTGACACGCGATTCCAGCT
AGCCACCCTGATAAGTGCTCCGCGGGGGTCCGGCTCGGGTGTGGGCTTGCTAGTTCTAGAGCCATGCTCGCCACC
ACCTCACCACCCCCACCCCCACCGAGTTTGGCCCCCTTGCCCCCTACACACACACAAACCCGCACGCACACACC
AC
GGGGAGGGAATGGGTGTCTGGCTCATGGATTGCCAATCTGAAATTCTCCATAACTTGCTAGCTTGTTTTTTTTT
TTTTTTTTACACCCCCCGCCCCACCCCCGGAATGCAATGTTCAATGATCTCAGCAGAGTTCTTCATGTGA
AACGTTGATCACCTTTGAAGCCTGCATCATTACATATTTTTTCTTCTTCTTCCCCTTCAGTTTCATGAAGTGGT
TTCATTTCTGT
CTTGCCACCTCTTTTCCAACCTCCACCCTCACTCCTTCTCAACCATCTCTTCCGAGATGAAAGAAAAAAAAA
GCAAAGTTTTTTTTTCTTCTCCTGAGTTCTTCAGTGAGATTGAGCTTGCAAAGGAAAAAAAAAATGTGAAATGTTA
TAGACTTGCAGCGTGCCGAGTTCCATCGGGTTTTTTTTTTAGCATTGTTATGCTAAAATAGAGAAAAAAATCCTC
ATGAACCTTCCACAATCAAGCCTGCATCAACCTTCTGGGTGTGACTTGTGAGTTTTGGCCTTGTGATGCCAAATC
TGAGAGTTTAGTCTGCCATTAAAAAACTCATTCTCATCTCATGCATTATTATGCTTGCTACTTTGTCTTAGCAA
CAATGAACTATAACTGTTTCAAAGACTTTATGGAAGAGACATTATTAATAAAAAAAAAAAGCCTGCATGCTG
GACATATATGGTATAATTATTTTTTCTTTTTTTTTTCTTTTTGGCTTGGAAATGGACGTTTGAAGACTTATAGCA
TGGCATTACATCTTTTGTTTTATTGCCTCATGACTTTTTTGTGTTTAGAACAAAACAGTGCAACCGTAGAGCCTT
CTTCCCATGAAATTTTGCATCTGCTCCAAAACGCTTTGAGTTACTCAGAACTTCAACCTCCCAATGCACTGAAG
GCATTCTTGTCAAAGATACCAGAATGGGTACACATTTAACCTGGCAAACATTGAAGAACTCTTAATGTTTTCT
TTTTAATAAGAAATGACGCCCACTTTGGGGACTAAAATTGTGCTATTGCCGAGAAGCAGTCTAAAATTTATTTTTX
AAAAAGAGAACTGCCCAATTATTTTTGGTTTGTTTTATTTTTATTTTTTGGCTTTTGGTCATTGTCA
AATGTGGAATGCTCTGGGTTTCTAGTATATAATTTAATTCTAGTGTTTATAATCTGTTAGCCAGTTAAAATGTA
TGCTACAGATAAAGGAATGTTATAGATAAATTTGAAAGAGTTAGGTCTGTTTAGCTGTAGATTTTTTAAACGATT
GATGCACTAAATTGTTTACTATTGTGATGTTAAGGGGGTAGAGTTTGCAAGGGGACTGTTTAAAAAAGTAGCT

1630/2825
FIGURE 1449B

TATACAGCATGTGCTTGCAACTTAAATATAAGTTGGGTATGTGTAGTCTTTGCTATAACCACTGACTGTATTGAAA
ACCAAAGTATTAAGAGGGGAAACGCCCCTGTTTATATCTGTAGGGGTATTTTACATTCAAAAATGTATGTTTTTT
TTTCTTTTCAAATTAAAGTATTTGGGACTGAATTGCACTAAGATATAACCTGCAAGCATATAATACAAAAAAAA
ATTGCAAACTGTTTAGAACGCTAATAAAATTTATGCAGTTATAAAAATGGCATTACTGCACAGTTTTTAAGATGA
TGCAGATTTTTTTACAGTTGTATTGTGGTGCAGAACTGGATTTTCTGTAACCTAAAAAAAATCCACAGTTTTAAA
GGCAATAATCAGTAAATGTTATTTTCAGGGACTACATCCTGTCTTTAAAAAGAAATGAAAAGTAAATCTTACCAC
AATAAATATAAAAAAATCTTGTCAGTTACTTTTCTTTTACATATTTTGCTGTGCAAAATTGTTTTATATCTTGAG
TTACTAACTAACCACGCGTGTTCCTATGTGCTTTTCTTTCAATTTCTGTTTATATCAAGAAAAGATA
ATCTACAATAATAACGGCATTTTTTTTTTTGATTCTGTAAAAAAA

1631/2825
FIGURE 1450

MASELAMNSDLPTSPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISNSHQLQGGFDGYARGAQQAAAAAGAGAGASL
GGSGEEMGPAAAVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFM

1632/2825
FIGURE 1451

GGCACGAGGGGAAGGTGGCCGAGCGCCGCGCTGCCCACTCGCTCGCTCGCGCACTCAGACGCGCGCCACAACAG
CGCGCCCCAAGCTGCGCAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCCTTGGACTTTAGAACGA
TTTAGGGTTGACAGAGGAAAGCAGAGGCGCGCAGGAGGAGCAGAAAACACCACCTTCTGCAGTTGGAGGCAGGCA
GCCCCGGCTGCACTCTAGCCGCCGCGCCCGGAGCCGGGGCCGACCCGCCACTATCCGCAGCAGCCTCGGCCAGGA
GGCGACCCGGGCGCCTGGGTGTGTGGCTGCTGTTGCGGGACGTCTTCGCGGGGCGGGAGGCTCGCGCCGCAGCCA
GCGCC**ATG**CAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCCCCGGCGCTCAACA
ACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTCGACCTCTTCTGCCTCTTCATGGCGGGCC
TCCCCTTCCTCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGATGAGAGCATCA
AGTACCCACTGAAAAGTGGTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGGGGATCGTCATTGCCATCCTCG
CGATCATCACGGGGGAATTCTACCGGATCTATTACCTGAAGAAGTCGCGGTCGACGATTGAGAACCCCTACGTGG
CAGCACTCTATAAGCAAGTGGGCTGCTTCCTCTTTGGCTGTGCCATCAGCCAGTCTTTACAGACATTGCCAAAG
TGTCCATAGGGCGCCTGCGTCCTCACTTCTTGAGTGTCTGCAACCCTGATTTGAGCCAGATCAACTGCTCTGAAG
GCTACATTGAGAACTACAGATGCAGAGGTGATGACAGCAAAGTCCAGGAAGCCAGGAAGTCCTTCTTCTCTGGCC
ATGCCTCCTTCTCCATGTACACTATGCTGTATTTGGTGCTATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCC
GCCTGCTCCGGCCCCCTCCTGCAGTTACCTTGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACC
ACAAGCACCATCCCAGTGATGTTCTGGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCG
TGTCTGACCTCTTCAAGACTAAGATGACGCTCTCCCTGCCTGCCCCTGCTATCCGGAAGGAAATCCTTTACCTG
TGGACATTATTGACAGGAACAATCACCACAACATGATG**TAG**GTGCCACCCACCTCCTGAGCTGTTTTTGTAAAT
GACTGCTGACAGCAAGTTCTTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGGAAAACTTTTGCCCGAC
TGATTTTTAAAAAAAAAAAAAAAAAAAAA

1633/2825
FIGURE 1452

MQNYKYDKAIVPESKNGGSPALNNNPRRSGSKRVLLICLDLFCFLMAGLPFLIETSTIKPYHRGFYCNDSEIKY
PLKTGETINDAVLCAVGIVIAILAIITGEFYRIYYLKKSRSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKVS
IGRLRPHFLSVCNPDFSQINCSEGYIQNYRCRGDDSKVQEARKSFFSGHASFSMYTMLYLVLVYLQARFTWRGARL
LRPLLQFTLIMMAFYTGLSRVSDHKHHPSDVLAGFAQGALVACCIVFFVSDLFKTKMTLSLPAPAIRKEILSPVD
IIDRNNHHNMM

1634/2825
FIGURE 1453

ACAACCGTAACAGCCACCAGACAAGCTTCAGTGGCCGGCCCTTCACATCCAGACTTGCCTGAGAGGACCCACCTC
TGAGTGTCCAGTGGTCAGTTGCCCCAGGATGGGGACCACAGCCAGAGCAGCCTTGGTCTTGACCTATTGGCTGT
TGCTTCTGCTGCCTCTGAGGGAGGCTTCACGGCTACAGGACAGAGGCAGCTGAGGCCAGAGCACTTTCAGAAGT
TGGCTACGCAGCTCCCCCTCCCCACCCCTATCCCCGAAGCCTCCCCATGGATCACCCCTGACTCCTCTCAGCATGG
CCCTCCCTTTGAGGGACAGAGTCAAGTGCAGCCCCCTCCCTCTCAGGAGGCCACCCCTCTCCAACAGGAAAAGCT
GCTACCTGCCAACTCCCTGCTGAAAAGGAAGTGGGTCCCCCTCTCCCTCAGGAAGCTGTCCCCCTCCAAAAAGA
GCTGCCCTCTCTCCAGCACCCCAATGAACAGAAGGAAGGAACGCCAGCTCCATTTGGGGACCAGAGCCATCCAGA
ACCTGAGTCTTGAATGCAGCCCAGCACTGCCAACAGGACCGGTCCCAAGGGGGCTGGGGCCACCGGTGGATGG
CTTCCCCCTGGGCGGCCTTCTCCAGACAATCTGAACCAAATCTGCCTTCCTAACCGTCAGCATGTGGTATATGG
TCCCTGGAACCTACCACAGTCCAGCTACTCCACCTCACTCGCCAGGGTGAGACCCTCAATTTCTGGAGATTGG
ATATTCCCGCTGCTGCCACTGCCGCAGCCACACAAACCGCCTAGAGTGTGCCAAACTTGTGTGGGAGGAAGCAAT
GAGCCGATTCTGTGAGGCCGAGTTCTCGGTCAAGACCCGACCCCACTGGTGTGCACGCGGCAGGGGGAGGCTCG
GTTCTCCTGCTTCCAGGAGGAAGCTCCCCAGCCACACTACCAGCTCCGGGCCTGCCCCAGCCATCAGCCTGATAT
TTCTCGGGTCTTGAGCTGCCTTTCCCTCCTGGGGTGCCACATTGGACAATATCAAGAACATCTGCCACCTGAG
GCGCTTCCGCTCTGTGCCACGCAACCTGCCAGCTACTGACCCCTACAAAGGGAGCTGCTGGCACTGATCCAGCT
GGAGAGGGAGTTCCAGCGCTGCTGCCGCCAGGGGAACAATCACACCTGTACATGGAAGGCCTGGGAGGATACCCT
TGACAAATACTGTGACCGGGAGTATGCTGTGAAGACCCACCACCACTTGTGTTGCCGCCACCCTCCCAGCCCTAC
TCGGGATGAGTGCTTTGCCCGTCGGGCTCCTTACCCCAACTATGACCGGGACATCTTGACCATTGACATCAGTCG
AGTCACCCCCAACCTCATGGGCCACCTCTGTGGAAACCAAAGAGTTCTACCAAGCATAAACATATTCTGGGCT
GATCCACAACATGACTGCCCGCTGCTGTGACCTGCCATTTCCAGAACAGGCCTGCTGTGCAGAGGAGGAGAAATT
AACCTTCATCAATGATCTGTGTGGTCCCCGACGTAACATCTGGCGAGACCCTGCCCTCTGCTGTTACCTGAGTCC
TGGGGATGAACAGGTCAACTGCTTCAACATCAATTATCTGAGGAACGTGGCTCTAGTGTCTGGAGACACTGAGAA
CGCCAAGGGCCAGGGGGAGCAGGGCTCAACTGGAGGAACAAATATCAGCTCCACCTCTGAGCCCCAAGGAAGAATG
AGTCACCCCAGAGCCCTAGAGGGTCAGATGGGGGGAACCCACCCTGCCCCACCCATCTGAACACTCATTACACT
AAACACCTCTTGATTGGAAAAA

1635/2825
FIGURE 1454

MGTTARAALVLTYLAVASAASEGGFTATGQRQLRPEHFQEVGYAAPPSPPLSRSLPMDHPDSSQHGPFFEGQSQV
QPPPSQEATPLQQEKLLPAQLPAEKEVGPPLPQEAVPLQKELPSLOHPNEQKEGTPAPFGDQSHPEPESWNAAQH
CQQDRSQGGWGHRLDGFPPGRPSPDNLNQICLPNRQHVVGPNLQSSYSHLTRQGETLNFLEIGYSRCCHCRS
HTNRLECAKLVWEDTLDKYCDREYAVKTHHHLCCRHPSPTRDECFAARRAPYPNYDRDILTIDISRVTPNLMGHL
CGNQRVLTKKHPIGLIHNMTARCCDLFFPEQACCAEEEEKLTFFINDLCGPRRNIWRDPALCCYLSPGDEQVNCFN
INYLRNVALVSGDTENAKGQGEQGSGTGGTNISSTSEPKEE

1636/2825
FIGURE 1455

AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA
GCCGTGGGCAAGGGAAGAGGCCACACCCTGCCCTGCTCTGCTGCAGCCAGA**ATG**GGTGTGAAGGCGTCTCAAACA
GGCTTTGTGGTCCTGGTGTCTCCAGTGCTGCTCTGCATACAACTGGTCTGCTACTACACCAGCTGGTCCCAG
TACCGGGAAGGCGATGGGAGCTGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTT
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGAAATGATGTGACGCTCTACGGCATGCTCAACACACTC
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTGCGAGGATGGAACCTTTGGGTCTCAAAGATTTTCCAAG
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATCAAGTCAGTACCGCCATTCTGCGCACCCATGGCTTTGAT
GGGCTGGACCTTGCTGGCTCTACCCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAG
GCCGAATTTATAAAGGAAGCCAGCCAGGGAAAAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTCATTAGCATCATGACCTACGATTTT
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGA
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTGAGAGCCCCAATCTCAGGACCGGGAATT
CCAGGCCGGTTACCAAGGAGGCAGGGACCCCTGCCTACTATGAGATCTGTGACTTCTCCGCGGAGCCACAGTC
CATAGAACCCTCGGCCAGCAGGTCCCCTATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC
GTCAAAGCAAGGTGCAGTACCTGAAGGATAGGCAGCTGGCAGGCGCCATGGTATGGGCCCTGGACCTGGATGAC
TTCCAGGGCTCCTTCTGCGGCCAGGATCTGCGCTTCCCTCTACCAATGCCATCAAGGATGCACTCGCTGCAACG
TAGCCCTCTGTTCTGCACACAGCACGGGGGCCAAGGATGCCCCGTCCCCTCTGGCTCCAGCTGGCCGGGAGCCT
GATCACCTGCCCTGCTGAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA
GACTCGGGATTAGTACACACTTGTTGATGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTTT
TTCAACTCCCTGCCCCCTAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATCACCAAGGAGCCAAACA
TCCTACAAGACACAGTGACCATACTAATTATACCCCCTGCAAAGCCAGCTTGAAACCTTCACTTAGGAACGTAAT
CGTGTCCTTATCCTACTTCCCCTTCCCTAATTCCACAGCTGCTCAATAAAGTACAAGAGTTTAAACAGTGTGTTGG
CGCTTTGCTTTGGTCTATCTTTGAGCGCCCACTAGACCCACTGGACTCACCTCCCCCATCTCTTCTGGGTTCCTT
CCTCTGAGCCTTGGGACCCCTGAGCTTGCAGAGATGAAGGCCGCCATGTT

1637/2825
FIGURE 1456

MGVKASQTGFVVLVLLQCCSAYKLVCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVT
LYGMLNTLKNRNP NLKTLLSVGGWNFGSQRF SKIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDQHF
TTLIKEMKAEFIKEAQPGKKQLLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHSP LFRG
QEDASPD RFSNTDYAVGYMLRLGAPASKLVMGIP TFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEIC
DFLRGATVHRTL GQQVPYATKGNQWVG YDDQESV KSKVQYLKDRQLAGAMVWALDLD DFQGSFCGQDLRFPLTNA
IKDALAAT

1638/2825

FIGURE 1457

GGCACGAGGGCGGGAGAGACGGAGGTAGAGGGAGGACACAGAGCCGCGCCGCCCGCACCACAGACCTTCGCCTCG
CCCCGCCGGTTCCTCACCCTCGGGGAGCAACATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAAC
AGCTGTTGACAAGACTGAGGATAGTTTAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAAATAATAC
GGAAACAAGTGAAAAATCCAAGCAAGTGAATACTTCAGCTGTTTGCAACTCTGTTGACTCCACAGTCTTCCTG
CAAAGCCAAAGTAGCTAACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCCATGTGTGGATGCTGG
ATTGATTTACCACCTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGCTGCTTCAAACGGGCAGGGCTCTAGG
AAACATATGTTACGATAGCCATGAGGGCAGAAGTGCACTTGACCAAGCAGGTGGTGCACAGATTGTAATTGACCA
TTTAAGGTCACCTGTGCAGTATAACAGATCCCGCCAATGAGAAGCTCTTGACTGTCTTTTGTGGCATGCTGATGAA
CTATAGCAATGAGAATGATTTCGCTTCAAGCTCAGCTTATCAATATGGGTGTTATTCCTACCTTAGTGAAATTACT
GGGCATCCACTGCCAAAATGCAGCTCTTACAGAAATGCTGCTTGTGTCATTTGGTAATTTAGCAGAACTTGAGTC
AAGTAAAGAACAGTTTGCCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTCTTCAAGAAACAAATAGAACATGA
TAAGAGAGAAATGATTTTTGAAGTTCTTGCTCCATTGGCAGAAAATGATGCTATTAAACTACAGCTGGTTGAAGC
AGGCCTAGTAGAGTGTCTACTAGAGATTGTTTCAGCAAAAAGTGGATAGTGACAAAGAAGATGATATTACTGAGCT
CAAACTGGTTTCAGATCTCATGGTTTTATTACTTCTTGAGATGAATCCATGCAGAAGTTATTTGAAGGAGGAAA
AGGTAGTGATTTCAAAGGGTACTCTCTTGATCCCATCAAATAACCACCAGCTACAGCTTGCTGGAGCATTGGC
AATTGCAAATTTTGCCAGAAATGATGCAAATTGTATTCATATGGTAGACAATGGGATTGTAGAAAACTTATGGA
TTTACTGGACAGACATGTAGAAGATGGAAATGTAACAGTACAGCATGCAGCACTAAGTGCCCTCAGAAACCTGGC
CATTCCAGTTATAATAAAGCAAAGATGTTATCAGCTGGGGTCACAGAGGCAGTTTTGAAATTTCTTAAATCTGA
AATGCCTCCTGTTTCAGTTCAAACCTCTGGGAACATTAAGAATGTTAATAGATGCACAAGAAGCTGCTGAACAATT
GGGAAAAGATGTTAAGTTAGTGGAGCGTTTGGTGGAATGGTGTGAAGCCAAAGATCATGCTGGTGTGATGGGGGA
GTCAAAACAGACTGCTGTCTGCCCTTATACGACACAGTAAATCAAAGATGTAATTTAAACCATTGTGCAGAGTGG
TGGCATCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTTGTTGCTTTGGC
ATTAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAAGATCTAGAAAGTGCTAAACTTGTACAGATTTTACATAG
ACTGCTAGCAGATGAGAGAAGTGCTCCTGAAATCAAATATAATTCCATGGTCCTGATATGTGCTCTTATGGGATC
TGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGTATCCAACTTCGCAGTCATGAGAACAA
AAGTGTGCCCAGCAGGCCTCTCTCACAGAGCAGAGACTTACTGTGGAAGCTTGAGAAGCTGCCCCGATACACGGCA
TCATCCCATCTCTAATTTCCCCTCTGTCTCCATCCAGCGCTTCTTCCGCTTCATTCTCTACCATACCACTTGT
GCATGCATGTGATGTTCTAATACCAATTGAAGAACCGCTGTAGGTACCTCCCTAATAAGATTTCTAAACCTATAG
TTAGTGTGATCATGACTTTGTCAAAGGCAAGTCTCCACCCATAACCGTTCTCTTGATTCTGTTGCTTGAGCTA
CATTAAGTAGAATGTGCATGTTGTAGTCTATGATGATGTAACTTGGTACTACATAATGACTTGCTCCACACAT
GCAGTAACTACATAATGATGTACTGGTAACTAGAAACAAAGAATGCAGCAGGATCTGTCTAGCTTATTAAAGA
TGAACTGAATTGGAAAAATAGCTCCATTTTTTGGTGCTTGGGAAGCACAGTGACCAAAAAAGTTGTATGGCTGC
TTATTCATTAGTCTTTCCTACTGATGTCAAATCCATGGTACCTAGAGTTAAATAAAATTCCAATGCTCTTACTCT
TTAAAAAAAAAAAAAAAAAAAA

1639/2825

FIGURE 1458

MCLVAFGNLAELESSKEQFASTNIAEELVKLFKKQIEHDKREMIFEVLAPLAENDAIKLQIVEAGLVECLLEIVQ
QKVDSKEDDITELKTGSDLMVLLLLGDESMQKLFEGGKGSVFQRVLSWIPSNHQLQLAGALAIANFARNDANC
IHMVDNGIVEKLMDLLDRHVEDGNVTVQHAALSALRNLAIPVINKAKMLSAGVTEAVLKFLKSEMPVQFKLLGT
LRMLIDAQEAAEQLGKNVKLVERLVEWCEAKDHAGVMGESNRLLSALIRHSSKSKDVIKTIVQSGGIKHLVTMATS
EHVIMQNEALVALALIAALELGTAEKDLES AKLVQILHRLLADERSAPEIKYNSMVLICALMGSECLHKEVQDLA
FLDVVSKLRSHENKSVAQQASLTEQRLTVES

1640/2825
FIGURE 1459

GGCACGAGGGCGACCGCTCCCCGGCGGGAGCCAGCGAAGGTTTCCATGTCAGAGGCCGATGGAGAACTGAAGATT
GCCACCTACGCACAAAGGCCATTGAGACACTTCGTGTAGCTGGAAGACACCAACTTCCTGACAGGAGCTTTATTT
CATTTGGGATTTCAAGTTTACAG**ATGG**TATCTTCTCAAAAGTTGGAAAAACCTATAGAGATGGGCAGTAGCGAAC
CCCTTCCCATCGCAGATGGTGACAGGAGGAGGAAGAAGAAGCGGAGGGGCCGGGCCACTGACTCCTTGCCAGGAA
AGTTTGAAGATATGTACAAGCTGACCTCTGAATTGCTTGGAGAGGGAGCCTATGCCAAAGTTCAAGGTGCCGTGA
GCCTACAGAATGGCAAAGAGTATGCCGTCAAAATCATCGAGAAACAAGCAGGGCACAGTCGGAGTAGGGTGTTTC
GAGAGGTGGAGACGCTGTATCAGTGTACAGGGAACAAGAACATTTTGGAGCTGATTGAGTTCTTTGAAGATGACA
CAAGGTTTTACTTGGTCTTTGAGAAATTGCAAGGAGGTTCCATCTTAGCCACATCCAGAAGCAAAGCACTTCA
ATGAGCGAGAAGCCAGCCGAGTGGTGCGGGACGTTGCTGCTGCCCTTGACTTCCTGCATACCAAAGACAAAGTCT
CTCTCTGTCACCTAGGCTGGAGTGCTATGGCGCCATCAGGGCTCACTGCAGCCCCAACCTCCCTGGGCTCCAGTG
ATCCTCCCACCTCAGCCTCCCAAGTAGCTGGGACTACAGGCATTGCTCATCGTGATCTGAAACCAGAAAATATAT
TGTGTGAATCTCCAGAAAAGGTGTCTCCAGTGAAAATCTGTGACTTTGACTTGGGCAGTGGGATGAAACTGAACA
ACTCCTGTACCCCCATAACCACACCAGAGCTGACCACCCCATGTGGCTCTGCAGAATACATGGCCCCCTGAGGTAG
TGGAGGTCTTCACGGACCAGGCCACATTCTACGACAAGCGCTGTGACCTGTGGAGCCTGGGCGTGGTCTCTACA
TCATGCTGAGTGGCTACCCACCTTCGTGGGTCACTGCGGGGCCGACTGTGGCTGGGACCGGGGCGAGGTCTGCA
GGGTGTGCCAGAACAAGCTGTTTGAAAGCATCCAGGAAGGCAAGTATGAGTTTCTGACAAGGACTGGGCACACA
TCTCCAGTGAAGCCAAAGACCTCATCTCCAAGCTCCTGGTGCGAGATGCAAAGCAGAGACTTAGCGCCGCCAAG
TTCTGCAGCACCCATGGGTGCAGGGGCAAGCTCCAGAAAAGGGACTCCCCACGCCGCAAGTCTCCAGAGGAACA
GCAGCACAATGGACCTGACGCTCTTCGAGCTGAGGCCATCGCCCTTAACCGCCAGCTATCTCAGCACGAAGAGA
ACGAACTAGCAGAGGAGCCAGAGGCACTAGCTGATGGCCTCTGCTCCATGAAGCTTTCCCTCCCTGCAAGTCAC
GCCTGGCCCCGGAGACGGGCCCTGGCCCAGGCAGGCCGTGGTGAAGACAGGAGCCCGCCACAGCACTCT**TGAA**ATG
CTCCAGTCACACCTTATAGGCCCTAGGCCTGGCCAGGCATTGTCCCCTGGAAACCTGTGTGGCTAAAGTCTGCTG
AGCAGGCAGCAGCCTCTGCTCTGTGGCTCCATTAGGCTTTTTTCATCTACGAAGGCCCTGAGGTTCCCATCAACC
CCCATTTCCTTAGGGTCTTGAGGAAAAAGCTTTTTTCCAAAGGGGTTGTCTTTGAAAAGGAAAGCAATCACTTCT
CACTTTGCATAATTGCCTGCAGCAGGAACATCTCTTCACTGGGCTCCACCTGCTCACCCGCTGCAGATCTGGGA
TCCAGCCTGCTCTCACCGCTGTAGCTGTGGCGGCTGGGGCTGCAGCCTGCAGGGAGAAGCAAGAAGCATCAGTTG
ACAGAGGCTGCCGACACGTGCCTCTTCCCTCTCTTCTCTGTACCCCTCCTCTGGCGGTCTTCCACCTCCTCTG
TCCTCCGGATGTCTCTTTGCCCCTCTTCTCCCTTGCTGAGCAAAGCCATCCCCTCAATTCAGGGAAGGGCAAG
GAGCCTTCCTCATTACAGGAAATCAAATCAGTCTTCCGGTCTGCAGCACGGAAGACATAATCTTTCTTTGCTG
TGACTGAAATGTATCCCTCGTTTATCATCCCCTTGTGTGATTGCTGCTAAAGTCAGTAGTATCGTTTTTTTA
AAAAAAAAGTTTGGTGTTTTTAACCATGCTGTTCCAGCAAAGATGATACCTTAAACTCCCAGTCAAGCCCATGA
ACTTCCCAGAGAGTGGAACGGCTTGCTCTTCTTTCTAGAATGTCCATGCACTTGGGTTTTAATCAGCAGTTCCT
ATTATTCTGATTTTAAGCTGTTCTGTGATGAACTTAGAGACAGCATCGGTGTCTGCTGCTGTGTCCCCAGGTCT
TGTGTGGGTGGCACAGATCTGGGCAGTTAGATAGTGCTCTGTGCCTAAGGTGAAGCCACACTAGGGTGAAGCCTC
ACTTCCCTGTTTGAGCAATGCAGTGCCTGCTGCCCGTGTGCATGAAGGTACAGCCATTAGATAAGTGGAACAT
TGAGTTACATAAAGAAAATAGATTTGCATTTGTCAGGCAGACGTTTATACAACACCACGGTGCTTTTATACATTG
TGCTTATTTTAATAAAACTGAAATTCTAAAAAAAAAAAAAAAAAAAAA

1641/2825

FIGURE 1460

MVSSQKLEKPIEMGSSEPLPIADGDRRRKKKRRGRATDSLPGKFEDMYKLITSELLGEGAYAKVQGAVSLONGKEY
AVKIIEKQAGHSRVRVREVELTYQCQGNKNIIEEFFEDDTRFYLVFEKLQGGSI LAHIQKQKHFNEREASRV
VRDVAAALDFLHTKDKVSLCHLGWSAMAPSGLTAAPTSLGSSDPPTSASQVAGTTGIAHRDLKPENILCESPEKV
SPVKICDFDLGSGMKLNNSCTPITTPELTTPCGSAEYMAPEVVEVFTDQATFYDKRCDLWSLGVVLYIMLSGYPP
FVGHC GADCGWDRGEVCRVCQNKLFESI QEGKYEFDPKDWAHISSEAKDLISKLLVRDAKQRLSAAQVLQHPWVQ
GQAPEKGLPTPQVLQRNSSTMDLTLFAAEAIALNRQLSQHEENELAEPEALADGLCSMKLSPPCKSRLARRRAL
AQAGRGEDRSPPTAL

1642/2825
FIGURE 1461A

TGGAAGAAGATGGCGGAAGGCGGAGCGGCGGATCTGGACACCCAGCGGTCTGACATCGCGACGCTGCTCAAAACC
TCGCTCCGGAAGGGGACACCTGGTACCTAGTCGATAGTCGCTGGTTCAAACAGTGGAAGAAATATGTTGGCTTT
GACAGTTGGGACAAATACCAGATGGGAGATCAAAATGTGTATCCTGGACCCATTGATAACTCTGGACTTCTCAA
GATGGTGTATGCCAGTCACTTAAGGAACATCTTATTGATGAATTGGATTACATACTGTTGCCAACTGAAGGTTGG
AATAAACTTGTCTAGCTGGTACACATTGATGGAAGGTCAAGAGCCAATAGCACGAAAGGTGGTTGAACAGGGTATG
TTTGTAAGCACTGCAAAGTAGAAGTATATCTCACAGAATTGAAGCTATGTGAAAATGGAACATGAATAATGTT
GTAACCTCGAAGATTTAGCAAAGCTGACACAATAGATACAATTGAAAAGGAAATAAGAAAAATCTTCAGTATTCCA
GATGAAAAGGAGACCAGATTGTGGAACAAATACATGAGTAACACATTTGAACCACTGAATAAACCAGACAGCACC
ATTCAGGATGCTGGTTTATACCAAGGACAGGTATTAGTGATAGAACAGAAAAATGAAGATGGAACATGGCCAAGG
GGTCTTCTACTCCTAATGTGAAAACTCAAATTACTGTCTTCCATCATATACCGCTTATAAGAACTATGATTAT
TCGGAACCTGGAAGAAACAATGAACAGCCAGGCCTCTGTGGCCTAAGTAACCTGGGAAATACGTGTTTCATGAAC
TCAGCTATTGAGTGTGAGCAACACACCTCCACTTACTGAGTATTTCTCAATGATAAGTATCAAGAAGAACTG
AATTTTGACAATCCCTTAGGAATGAGAGGTGAAATAGCTAAATCTTATGCCGAACCTGATCAAGCAAATGTGGTCT
GGAAAGTTTAGCTACGTCACCCCAAGAGCCTTTAAGACACAGGTAGGACGTTTTGCACCTCAGTTCTCTGGATAT
CAGCAGCAAGACTGTCAAGAAGCTTTAGCTTTCCTATTAGATGGATTACATGAGGATTTGAATAGAATTAGGAAA
AAACCATATATACAATTAAGATGCAGATGGAAGGCCAGATAAGGTGGTTGCCGAAGAAGCCTGGGAAAACCAT
TTAAACGAAATGATTCTATCATAGTAGATATATTTTCATGGCCTTTTCAAATCAACTTTAGTTTGTCTGAGTGT
GCTAAGATTTGAGTAACATTTGATCCTTTTTGTTACTTGACACTTCCATTGCCCATGAAAAAAGAACGCACCTTG
GAAGTTTACTTAGTTAGAATGGATCCGCTTACCAAACCTATGCAGTACAAAGTGTTGTCCCCAAAATTGGAAAC
ATATTAGATCTTTGTACAGCATTGTCTGCTTTGTGTCAGGAATACCTGCAGATAAGATGATAGTTACTGATATATAC
AATCATAGATTTACAGAATATTCGCTATGGATGAAAACCTTAGTAGTATTATGGAACGGGATGATATTTATGTG
TTTGAAATTAACATCAATAGGACAGAAGATACAGAGCACGTGATTATTCCTGTTTGCCTAAGAGAAAAATTCAGA
CACTCGAGTTATACCCACCATACTGGTTCTTCACTTTTTGGTCAGCCCTTTCTTATGGCTGTACCACGAAACAAT
ACTGAAGACAACTTTATAATCTCCTGCTCTTGAGAATGTGCCGATATGTCAAATATCTACTGAAACTGAAGAA
ACTGAAGGATCCCTACACTGCTGTAAGGACCAAAATATTAATGGGAATGGCCAAATGGCATAACATGAAGAAGGC
TCACCAAGTGAAATGGAACAGATGAGCCAGATGATGAATCCAGCCAGGATCAAGAAGTTCCCTCAGAGAATGAA
AACAGTCACTCTGAAGATTGAGTTGGAGGAGATAATGATTCTGAAAATGGATTATGTACTGAGGATACCTGCAAA
GGTCAACTCACGGGACACAAAAACGATTGTTTACATTCCAGTTCAACAACCTTAGGCAATACTGATATCAACTAC
ATCAAAGATGATACCAGGCATATAAGATTTGATGATAGGCAGCTTAGGCTAGATGAAAGATCTTTCTTGCTTTG
GATTGGGATCCTGATTTGAAAAAAGATATTTGATGAAAATGCTGCTGAGGACTTTGAAAAACATGAAAGTGTG
GAGTATAAACCTCCTAAAAAACCTTTGTGAAATTAAGAGATTGCATTGAACCTTTTACAACAAAAGAAAAGCTA
GGTGCTGAAGATCCCTGGTATTGTCCGAATTGTAAAGAACATCAGCAAGCCACAAAGAAATTGGATTTATGGTCC
CTGCCTCCAGTACTTGTAGTACATCTCAAGCGATTTTCTTACAGTCGATACATGAGAGACAAGTTGGATACCTTA
GTTGATTTTCTTATCAATGACTTGGATATGTGCGAATTCTTAATTAATCCAAATGCAGGTCTTGGCGCTATAAT
CTGATTGCTGTTTCCAACCACTATGGAGGGATGGGAGGAGGACACTATACTGCTTTTGCAAAAAATAAGATGAT
GGAAAATGGTACTATTTTGATGACAGTAGTGTCTCCACTGCATCTGAAGACCAAATTGTGTCCAAAGCAGCATAT
GTACTCTTCTACCAGAGACAAGACACTTTTCAGTGGAACCTGGCTTTTTTCTCTTGACCGAGAACTAAAGGTGCT
TCAGCTGCCACTGGCATCCCATTAGAAAAGTGATGAAGATAGCAATGATAATGACAATGATATAGAAAATGAAAAC
TGTATGCACACTAACTAAATGAAAGTCCTAGAAGCCATAAAAGAGACACTTTCTCTGCTGGTGGTATCTATGGAAT
GATGAAGTTACCCACCACATTAACAAACAAAGTCTGAGATGGGGAGTTTCAGATAACCGAATGTAAATCCTTTATC
AGATTTTAACTTGTGCAGTACTTGAAGTGAAACACAATGAAAACCTTTAACAGAAATTGTCTCTTAATACATTTAC
AGTCTTGTATTTACAAGCTAAATATATATAGGAAATCACAAATAAATCCCTTTTAAAGTTTGTCTGCTGTTTTGATT
AATTATGTTTTCTTTAATTTTTTGGATGTGAGTTGATGACAAATGTTAAATTTGTGGATGTTGGTCATTTATTTT
GCTCTAATAATACTGCAAGAAAACCTATGGCTGAACTTAGTTTTTGGATAATCTAGTTCATGTGCATTAGGCTGCC
GTATATACTACTATGATATTTAGCTGCAGTATCAATGTGGCATAAATACTGCGGCAGCATTCTTCGAAAACCGCA
TTTTCAAATTTATCCCGTAATCAATGTGGGCCTATTAAAAAACCAATCATGATACAAGAAACAACCTTGGA
AGTTATTTCCCTTTGTAATACCTTTAAAAATCCAGAGTATTATATTCATTTTACTGCCACTGTGGAACAGGTTT
TAGATTTCTACTCCATCTAAAGTCATTTTTTCAGTTACATGTAAGTATTATTTACTGCTATTGGGATCTATTCTT

1643/2825
FIGURE 1461B

CAGATATTCAAAAACATTTTTTGCTTTAAAAATGCATATCTTTAATTGGGTGTTGGTCCAAAATTAAAATTTTTGC
TGTCTGTTTTTCTCTACCCCATTTTGTGGTAATTTGGCAACTTGAGCTCTCCAATTATTGTAATATAAGGACAG
ACATAATAGTATTCTGTACCCATAGTAATAATTGCATCAAGCTTAGATGAGAAATTTTTTTCATATACTGGCCTT
TAAATCATTAAATGGACAATTGGCTATAAAGGTAGGTCTGTAACTTTCTTTGTGTGTTCCCTGATGGAATTCACCA
TAGCCTTACAGCTTTTCTCAGAAGGTAACTTGTTATAAGAGAAATGGCATTTCATGTTCCAGAGTCAGAACCTG
TACAGTATATAAAGCATAAACACCTTGAATTTGATTTTAGTTTACCACATTCAAGGATCCAGGATGCCAAAAATA
TGTGTGAACATTTGAAACATTTTTTATTTGCTGCTTTTTCCCTTTGATATAGTTGAAAGAATGTATTGTAAATTGG
CATACAATACTGCCTTTAATAGAAAACCTAAATGCTGGGGCACATTTACATATCGACTACCTGAGAAATTGCTT
TGTGTCCCACTGTTATTAAAGCAAAAAGTATAATGTTCTTCACTTGAACATAATCAAATACAATAGATTATAAATT
GTGTATTGTAAATAAAAGTTCACTCTGTGAGTGCACATTTTGGTAAATTATTTATTTATGTTAGCATTTAAAAGT
TTAAAAAAAATGCATTTGACCAGGATAAATGAGGTATGTTGATCATGGCTTTGCTTTATATCTTGATATTAAAGC
TGGTTTATCATCTGGTATTTTAAAAGCTGCTTTGGGGTTTTTTTTTTCTTTTTTTTTTTTTTAAATGTAAACTAA
CCTCCTGCATGACAGAGGTTAAAATTTGTCTGCACTTGAGTTCACTTGAGTTTACATTTGAAATGTGCATGTTT
ATTTATATAGATTTCAATAAAGCTATTCAAGGCCTT

1644/2825

FIGURE 1462

MAEGGAADLDTQRSDIATLLKTSLRKGD TWYLVDSRWFKQWKYVGFDSWDKYQMGDQNVYPGPIDNSGLLKDGD
AQLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEP IARKVVEQGMFVKHCKVEVYLTELKLCENGNMNNVVTR
RFSKADTIDTIEKEIRKIFSIPDEKETRLWNKYMSNTFEPLNKP DSTIQDAGLYQGQVLVIEQKNEDGTWPRGPS
TPNVKNSNYCLPSYTAYKNYDYSEPGRNNEQPGLCGLSNLGNTCFMNSAIQCLSNTPPLTEYFLNDKYQEELNFD
NPLGMRGEIAKSYAELIKQMWSGKFSYVTPRAFKTQVGRFAPQFSGYQQQDCQELLAFLLDGLHEDLNRIKKPY
IQLKADAGRDPDKVVAEEAWENHLKRND SIIVDIFHGLFKSTLVCPECAKISVTFDPFCYLTPLPLMKKERTLEVY
LVRMDPLTKPMQYKVVVPKIGNILD LCTALSALSGIPADKMIVTDIYNHRFHRIFAMDENLSSIMERDDIYVFEI
NINRTEDTEHVIIPVCLREKFRHSSYTHHTGSSLFQGPFLMAVPRNNTEDKLYNLLLLRMCRYVKISTETEETEG
SLHCKDQNINGNGPNGIHEEGSPSEMETDEPDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEDTCKGQL
TGHKKRLFTFQFN NLGNTDINYIKDDTRHIRFDDRQLRLDERSFLALDWD PDLKKRYFDENAAEDFEKHESVEYK
PPKKPFVKLKDCIELEFTTKEKLGAEDPWYCPNCKEHQQATKKLDLWSLPPVLVVHLKRFSYSRYMRDKLDTLVDF
PINDLDMSEFLINPNAGPCRYNLI AVSNHYGGMGGGHYTAFANKDDGKWYYFDDSSVSTASEDQIVSKAAYVLF
YQRQDTFSGTGFFPLDRETKGASAATGIPLESDEDSNDNDNDIENENCMHTN

CACAGGCGCGGTGTCTCCAGGAGAGAGGAGGAGCGCACAGCAGCTCTAGGACCTCGCAGGCGCCTCGGCGCGGCACCT
CACGTAGAGCCCAAGGAGCAGTCCCCGACCTCTCTCGGAGGGCCGTGCAGGCTTCCCCGCGGTCCCTACCTGC
GCCTCCGCCCCGCCAGCGGCGCTGGGGAAGGGGAGGAGCGGCCCGGACGCTGCCGCGCGCGCAGGGAGCCGCCC
GCCGCAGGCCTTGCCGCGCGCCGCGCGCTCTCCCCGCGAGCCCCGGAGGGCGGGTCTGCGGCCGAGCCAGCGG
CGGCGGAGGGGCGAGCGCAGACCTCTGCGGCCCGGGCGGGCGCGCGCGGGAGTCTTGGGCCGCTGGCGGGCAACG
CCTCTGCCCCACCTCGCTGGGGAAGGCTGGCGCTGCTGCCCGGCCGAGCCAGGGGCGAGGCTGCGCAAAGGTGAC
TTAGGGAGACCTTGCGGGCCGCCCCTGGGTGCGCGCTCCCGATCGGCTCGCTCGGCTCGACTGGAGGGGAGGAG
GAGGAGCAGGCCGAGCGCATTTCGCGCTGGAGCTTGCGAGGAGCGCAGGGTGGAGCGCGCCAGCCGGGGTCTCTCGG
ATCTGGCCCAGGTGAGGAATTTTAAATTGGAACAAGAGCAAGAAAAAACAAATCTTGTGAGAAGCACTGGAGA
CGCTGGCCACTGAACATCATGAATTAGAGCAGTCTCTGGTGAAAGGCTCTCCACCGCCAGCATCCTTAGCGAGG
ACGAGTTCTATGATGCGCTGTCAGATTCCGAGTCCGAAAGGTCCCTGAGTAGATTGGAAGCAGTGACAGCACGCT
CCTTTGAAGAGGAAGGAGAGCATTGGGCGAGTAGAAAACACAGAATGTCCGAAGAAAAAGACTGTGGTGGCGGAG
ATGCTCTCTCCAATGGCATCAAGAAACACAGAACAAGTTGCCTTCTCCTATGTTTTCCAGAAATGACTTCAGTA
TCTGGAGCATCCTCAGAAAATGTATTGGAATGGAATATCCAAGATCACGATGCCAGTTATATTTAATGAGCCTC
TGAGCTTCTTACAGCGCCTAACTGAATACATGGAGCATACTTACCTCATCCACAAGGCCAGTTCACTCTCTGATC
CTGTGGAAAGGATGCAGTGTGTAGCTGCGTTTGCTGTATCTGCTGTTGCTTCTCAGTGGGAACGGACTGGAAAAC
CTTTCAACCCACTGCTGGGAGAGACTTATGAATTAGTGCAGATGACCTTGGATTTAGACTCATCTCCGAACAGG
TCAGCCATCACCCACCAATCAGTGCATTTTATGCTGAAGGATTAAACAATGACTTCATCTTTCATGGCTCTATCT
ATCCCAAACCTGAAATTCTGGGGGAAGAGTGTAGAAGCAGAAACCCAAAGGAACCATCACCTTGGAGCTCCTTGAAC
ACAATGAGGCATATACATGGACAAATCCCACCTGCTGTGTGCATAATATCATTGTGGGTAAACTGTGGATCGAAC
AGTATGGCAATGTGGAAATTATAAACCACAAGACTGGGGACAAATGTGTGTTGAATTTTAAGCCATGTGGCCTTT
TTGGTAAGGAATTACACAAAGTTGAAGGCTACATTCAAGATAAAAGCAAAAAGAAGCTCTGTGCCCTCTATGGGA
AGTGGACTGAATGTTTATACAGTGTGACCCTGCCACGTTTGACGCTTACAAAAAAATGATAAGAAAAATACAG
AAGAGAAGAAGAACAGCAAAACAGATGAGCACCTCTGAGGAGTTGGATGAAATGCCAGTGCCGGATTCTGAAAAGTG
TATTCATTATCCCTGGAAGCGTTCTTCTATGGCGAATAGCCCCACGGCCTCCAAATTCTGCCCAGATGTATAATT
TTACTAGTTTTTGCAATGGTTTTTGAATGAAGTAGACAAAGACATGGAGAGTGTGATTCCCAAGACAGACTGCAGGT
TACGGCCTGACATCAGAGCCATGGAAAATGGAGAGATAGATCAAGCTAGTGAAGAAAAAAACGACTTGAGGAAA
AACAAAGAGCAGCCCCGCAAAAACAGGTCCAAGTCAGAAGAGGACTGGAAGACGAGGTGGTTCCATCAAGGTCCTA
ATCCCTACAATGGAGCACAGGACTGGATTTACTCTGGCAGCTACTGGGACAGAAATTACTTCAATTTGCCTGACA
TTTATTAAAATGCATACAAGTCAGGGTGTTTTGGCTAATCTACAAATAAGTCTTAAACCTATGTTTTTAAATTTTT
TTCCCTTGGTTTTCTACTTATCTTTTTAAAAAAAATGAAAAAACTCATGAGATAACTGCATTTACCCAACAA
AAGCAGGGTATAAGGCGATATTGGTGATGAAAGTCTTAGGAAAAATGCATAATTTTGCTATAAAATGTACTTATT
TGGAATACTATTTTATATAGAGGTAAGAGAACACTGCTGGGGAATATGCTTTTTATGGTTGCTGTTGCCATATTT
ACTGAAGTTTTATACCTAAATGTAACCTTTAGCTTTATGGAACATATAGTAATCCCAAATCAAGTTATTTTGAAT
ATTTTTATGCTGTCATGCTTGAATGTTTTAGATGTAACCTTTGACATATTTAGAACTCTCCTCCTATACAATGTT
TATTCTCAGATATAGAGTTATGTCATTTTATAAAGACTTCATTGATAAGATGGCTTTTATTCTACTAATCCTC
CCAATGTTACCCCTTCCATCTTCCAAGAAGAAAAAAAATGCCTGAATATTGAGAATAGATATTTCTGATTTGAA
ATTCTAAAGAATTAAACTGGAAAAGTATTTCAATTTACTTAGTGCTCTGAATTTACTTTTACAGTTTTCTGCAGTC
AGTATCATTAAATGGTTAAGTTTACATTTGAACTGAAAATATGTATAAAATCTAGCAATTCACAAAAATGCCCT
AGAAATATAGATTTTAAATCACCATTACATAATGACAAACCTTGTTAAATGCTTCCACTTCAGTGGCAATGCCA
CTAGGGAAAGTAAGTTGCACTCATGTAAGTATCAAACATATATAAAGGAGGCCTTGTCATTTCAAGTTTGCAA
GTACCTGTGTACTTAAATATGTGTGGAGACCTACTGTACAGTAGTTTTGCCCTTTAATTGGGGCACATTCATC
TTAAATCTTATAGTATTTATCCACCCAAACCCCAGACTGAGATACTGCTCCCAGGGGCCTAGGTAGCTGCCAGTC
CGTGATTTTAAATTGCTGTCTTGAAGTTAAACAAGTGTATATAATGAAATAATCTACCTGATGCTAAATAAAGGCTTT
AGAATGTTCCCCAAAAAAAACAAAAA

1646/2825
FIGURE 1464

MSEKDCGGGDALSNGIKKHRTSLPSPMFSRNDFSISILRKCIGMELSKITMPVIFNEPLSFLQRLTEYMEHTY
LIHKASSLSDPVERMQCVAFAVSAVASQWERTGKPFNPLLGETYELVRDDLGFRLISEQVSHHPPISAFHAEGL
NNDFFIFHGSIYPKLKFWGKSVEAEPKGTITLELLEHNEAYTWTNPTCCVHNIIVGKLWIEQYGNVEIINHKTGDK
CVLNFKPCGLFGKELHKVEGYIQDKSKKKLCALYGKWTECLYSVDPATFDAYKKNDKKNTEEEKKNSKQMSTSEEL
DEMPVPDSESVFIIPGSVLLWRIAPRPPNSAQMYNFTSFAMVLNEVDKDMESVIPKTDCLRLRPDIRAMENGEIDQ
ASEEKKRLEEKQRAARKNRSKSEEDWKTRWFHQGPNPYNGAQDWIYSGSYWDRNYFNLDPDIY

1647/2825
FIGURE 1465

GGCACGAGGAAGCTACTCAGATAAGAGGCTCCAAGAGGACATTTTTGGATGTGAAAAACAATGAGAAGGAGGACA
ACACACATTTACAATCGTCTTAATTTTGTACTCAGAAAAAGGATGTGAAGACAATGCACAGGGAATACAATAGTT
TCAGATCTGTGTACAGTTTCCTTTTGCTTCATCTCCTGCAACAATGTAATGAAGACACCATGATATCATTAAACAT
TTCACACAAAAGGAAAATGAGGCTGAAATGGTGTGGGCAAGGCCCAGGAATCTGGAGCATCCCTAACCAAGCAGC
AGAGCACCTGGGATAGAGAAAGTGCTCAAGAATGTTTCACTTACTGATTACTACAATCAAAAAAGATACGACACT
AATTTACCACATTCTTCTTACTTATTTTATGAGATACTATTCTTCCAAGGTGGAGAAAGTGGAGAAAGTAGAGTG
ACGCAGCTAAGGGAGTAAATCGACCCTCAGCCAACAAGTGGCAAAAGCCTGAAGAAAGTGATCAAGATCACTGAT
GACCCCGCGGCCCATCTCCAAGGGGGCGGGTATCACAACCCCGACGCCACACCACGTATCATTCCGCAAACTCC
CGCGCCTCCACGCAGAACTGGCAAGAGGGAAGGCGAGACAGCAGTGAACAGCTGGTACGCAGCACCCACAGCAC
CGCGGCAGCAGCTAGTGCCGACTCCCGCCTAGCTCTTTTACTCTGTTTCGCGGAAGAATGGGGAAACAGTAAGG
TTGCGGCGCCTCCCGCGAGACGAGGTACCTGAGGCTGGCCCCGCAGTCCCCCGCCGACCAGCACCGGAGCTTCA
CACCCCACTTCCGGGGTCAAGTCACCGCCGGGAATCCTGTGATCGCAGAAAGGTAGTCTCAGGTTCCGCCCTAT
CCAAGTCCCGCCTCCACTGCCTCTCGCCCTGTATCTGTCAACTTCCGGGACGCCGCGCGTCACTAAGCAGCCAAT
CTCCACTTCCGGACTCATCCAGCCCCTTCTCCACCCCTTTTCAAGACAGCGCGATTGCGATTTAGGTTTCCGCGC
ATTTAATTGGCGAAGCTGGAGCGCTAGTCTTCGCTGATTGGTGCCGAGAAATCTGCCCCATAGACACCCGCGGGG
CGCACAGTTTCAGTCGTCCGTGGGTTTCCCGCCAGCCGAGTCTTGGACCATAATCATGGTGGACATGATGGACT
TGCCCAGGTCGCGCATCAACGCCGGCATGCTAGCTCAATTCATCGACAAGCCTGTCTGCTTCGTAGGGAGGCTGG
AAAAGATTCATCCACCGGAAAAATGTTTATTCTTTCAGATGGAGAAGGAAAAAATGGAACCATCGAGTTGATGG
AACCCCTTGATGAAGAAATCTCTGGAATTGTGGAAGTGGTTGGAAGAGTAACCGCCAAGGCCACCATCTTGTGTA
CATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCTTGGACTTTACAATGAAGCTGTGAAAAATTATCC
ATGACTTCCCTCAGTTTTATCCTTTAGGGATTGTGCAACATGATTGATCTTGATGGATTTTCATACGATTGTAAA
TGAGCTATATTAAAGTCTATTAAAGGAAAAAAAAAAAAAAAAAAAAA

1648/2825
FIGURE 1466

MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVEVVGRVTA
KATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD

1649/2825
FIGURE 1467

GTTTTGAAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTTAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCTTCATTATGTCTGATGGAGATTATGATTACCTCATCAAGTTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAACTAGTGCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCCTGGA
TTCCTGAAGGAGTGGTGCATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCAT
GTGGCTGTTGAGAAAGTCAAGTAAGTGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAAATTAATTTGTTGCAGCTTTGTAAATATTTCTTTAAGATTCAGCCTGAGAGTTAGGAGAAAT
ATTTGAGGCCAAAAGTGCCTTATACAACCTTAGCCTATTATAGTAAATCATTCAAGGATTGAGAAATTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTCACCTGCCTTAATGTAGGTAGGCCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTTGAAGACTCATGCCATAGG
TGACATTCTAAAATACCATTAAAGCCACTTAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAACATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AAACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATTGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTAGATTTTATGGCTTTAGTTCACTGTGATTGTACATTTATACTTGGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGCTTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTTTCTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAATTACTCATCTCTGTCTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAATTGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAGATAGATGTTTCATATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTCTGTAGCCTATATTTTTCATAGAGCTCATGAGCATTTACTGTACTTGCTGGGTCTTGCC
AAGATCATTTATTCCGCTGCATTGCCAAAGTGTCTTCATACCAAATTAAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTCAATTTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTGAATAAAGTAG
ATCAAACTTCCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGAATAAAAA
TACATGTATTTTATGGTGGCAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGATGGTTA
CACTAGAAGCCCAGACTTTACGACTACACAATATATTCATGTATCTAACTGTACTTGTACCCCTAAATTTATT
TTTAAAAAAAAAAAAAAAAAAAA

1650/2825
FIGURE 1468

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHASTDQLSEEKEKGACGC

1651/2825
FIGURE 1469

AGCCGCCGCTCGCCGCTTCCCCTCGTCGGAGCGGCCGCTCGTCCGCCCGGCTTGAGGCCCGCGGGGAGCGCGGC
GCAATTCGTGCGCCCGCGGGGGGGCGGCCTCCCGGCATCTTCGCGGCGACCAAGGACTACCAGGAAGGGGAGCGG
CTGGG**ATGG**CGCGTCCGCGGCCCGCGAGTACAAAGCGGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGC
ACTGGCCGGCCCGGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAAACAAGTATCCTATCTTCTTTT
TTGGCACCCATGAAACTGCAATTTCTAGGTCCCAAAGACCTTTTTTCCATATAAGGAGTACAAAGACAAGTTTGGA
AGTCAAACAAACGGAAAGGATTTAACGAAGGATTGTGGGAAATAGAAAATAACCCAGGAGTAAAGTTTACTGGCT
ACCAGGCAATTCAGCAACAGAGCTCTTCAGAACTGAGGGAGAAGGTGGAAATACTGCAGATGCAAGCAGTGAGG
AAGAAGGTGATAGAGTAGAAGAAGATGGAAAAGGCAAAAGAAAGAATGAAAAAGCAGGCTCAAAACGGAAAAAGT
CATATACTTCAAAGAAATCCTCTAAACAGTCCCGGAAATCTCCAGGAGATGAAGATGACAAAGACTGCAAGAAG
AGGAAAACAAAAGCAGCTCTGAGGGTGGAGATGCGGGCAACGACACAAGAAACACAACCTCAGACTTGCAGAAAA
CCAGTGAAGGGACCT**TA**ACTACCATAATGAATGCTGCATATTAAGAGAAACCACAAGAAGGTTATATGTTTGTTG
TCTAATATTCTTGGATTTGATATGAACCAACACATAGTCCTTGTTGTCATTGACAGAACCCCGAGTTTGTATGTAC
ATTATTCATATTCCTCTCTGTTGTGTTTCGGGGGGAAAAGACATTTTAGCCTTTTTTAAAAGTTACTGATTTAAT
TTCATGTTATTTGGTTGCATGAAGTTGCCCTTAACCACTAAGGATTATCAAGATTTTGCAGACTTATACATG
TCTAGGATCCTTTTATCAAGGCAGTTATGATCATCGTTTTCTGCCTTGACCCACCATCATCAAACACTCAGTT
AAATATAAATTAACATTTTTTTAGATGACCACTCAACATAATGCTTAAGAATGGAATTTCTCTCTGTGACAGAAC
CCAGGAATTAATTCCTAAATACATAACGTTGGTATATTGAAGACGAAATTAATAATTGTCCTTCAGTTTGGAGCC
ATGTGTAAAGTTTAAACCATATTGTAAAATATCTATTCCGTATTAGAAATAGCTAGTTGACAGCTTATACTTCTCA
AAATTCATATTGTTATGTACACAACTAAGTTTCTATATGTGAAGTTAGTGAGTCTTTTTGTGTTACTCCAAAT
AAAGGCAATGATTTATTTTTTTCCAGTGCCAATACAATTTTGAGCTAAGCACTCAAGGTGGATACTTTACATTT
TAAAGCTGGAATCAGCAACAGCCCTATGGGAAACCAGACAAAGCATTGACTTTTAAATGTAGACTTTTAAATAA
ACTGTTTTCTTTTGGAATAAATTAGAAATAGTTAATATTCATCCTTAAACCATTATTATGTGTACATTATTGTT
GCTATTGTGATAATAGAGAATTTTATTTATTTTTATGCCAGCTTATATTGTGAGAACACATTTAGTCAGTTTGGG
TTTTATCAATCCTGTTAATGCTTGTCTTGGAACATCTTCGCGTATTCACGGTTTGTAGTTGAAAAGTTTACTG
TAAAAAATCAAAAACAAAAAATGTATTGTTTTTACAGAATAAATTTATTGGGAIGTGTACTGGGAGTAAGATT
TGAGGTTGTAAGCAAATAAGTTAGTGTAATTTGGCTTCATATATGTAACGTGAGGTATTAATGTAATTCATATA
TTAAAGCAAAAATTGTTTCGAGC

1652/2825
FIGURE 1470

MARPRPREYKAGDLVFAKMKGYPHWPARIDELPEGAVKPPANKYPIFFFFGTHETAFLGPKDLFPYKEYKDKFGKS
NKRKGFNEGLWEIENNPVVKFTGYQAIQQSSSETEGEGGNTADASSEEEGDRVEEDGKGKRKNEKAGSKRKKS
TSKKSSKQSRKSPGDEDDKDCKEEENKSSSEGGDAGNDTRNTTSDLQKTSEGT

1653/2825
FIGURE 1471A

CGGGCCGCTCCCCGGAGCGGCTAAAGCGGCGGCGACCGAGGCGAGCAATGGGCACGGCAGTCTCGGCAGAGCAC
AGGCGCTTCACGCGGCTGCTCGGGCTCCGCGCTGACCTGCCCGGGCGGCCGCTATTGTCTTTCTCCGCGGCGA
AGGTGAAGAGTTGTCCCAGCTCGGCCCCGCGGGGAGCCCCGGGAGCCGCACGTGTCTGGGTCATGAAACTTAAT
CCACAGCAAGCTCCCTTATATGGTGATTGTGTTGTTACAGTGCTGCTTGCTGAAGAGGACAAAGCTGAAGATGAT
GTAGTGTTTTACTTGGTATTTTTGGGTTCCACCCTCCGTCAGTGTACAAGTACTCGGAAGGTCAGTTCTGATACA
TTGGAGACCATTGCTCCTGGTCATGATTGTTGTGAAACAGTGAAGGTGCAGCTCTGTGCTTCCAAAGAGGGCCTT
CCCGTGTTTGTGGTGGCTGAAGAAGACTTTTCATTTTCGTCCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCA
ACCAGTGCTGGAAATCAGCAGGCTTTGAACTTTACCCGTTTTCTTGACCAGTCAGGACCCCCATCTGGGGATGTG
AATTCCTTGATAAGAAGTTGGTGCTGGCATTTCAGGCACCTGAAGCTGCCACGGAGTGGAATGTATTGGGGACA
GATCAGAGTTTGCATGATGCTGGCCCCGCGAGAGACATTGATGCATTTTGTGTGCGGCTGGGACTGCTGAGGTTG
ACGTGGTTTCTGTTGAGAAGCCAGGTGGCCGCGGAGCTCTCAGTATCCACAACCAGGAAGGGGCGACGCTGTG
AGCTTGGCCTTGGAGCGAGGCTATCACAAGCTGCACCAGCTTCTAACCGAGGAGAATGCTGGAGAACCAGACTCC
TGGAGCAGTTTATCCTATGAAATACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACA
TTAACCTCTGAGTCTGATTACATCATGAACACCCATTTCTTGAGACGGTTGCACTGGACCAATTTTTAACTT
ATGAACATCCAACAGCAACTAATGAAAACAAACCTCAAGCAGATGGACAGTCTTATGCCCTTAATGATGACAGCA
CAGGATCCTTCCAGTGCCCCAGAGACAGATGGCCAGTTTCTTCCCTGTGCACCGGAGCCCACGGACCCCTCAGCGA
CTTTCTTCTTCTGAAGAGACTGAGAGCACTCAGTGCTGCCAGGGAGCCCTGTTGCACAGACTGAAAGTCCCTGT
GATTTGTCAAGCATAGTTGAGGAGGAGAATACAGACCGTTCTCTGTAGGAAGAAAAATAAAGGCGTGGAAGAAAA
GGGGAAGAGGTGGAGCCAGCACCTATTGTGGACTCTGGAAGTGTATCTGATCAAGACAGCTGCCTTCAGAGCTTG
CCTGATTGTGGAGTAAAGGGCACGGAAGGCCTTTTCGTCTGTGGAAACAGAAATGAAGAACTGGAACAAAATCT
TCTGGAATGCCACAGACCAGGAGTCCCTGAGCAGTGGAGATGCTGTGCTTCAGAGAGACTTGGTCATGGAGCCA
GGCACAGCCCAGTATTCTCTGGAGGTGAACTGGGAGGCATTTCAACAACAAATGTGAGTACCCAGACACTGCA
GGGGAATGGAACATGGGCTCATGAACCCAGATGCCACTGTTTGGAAGAATGTGCTTCAGGGAGGGGAAAAGTACA
AAGGAAAGATTTGAGAACTCTAATATTGGCACAGCTGGAGCCTCTGACGTGCACGTACAAAGTAAGCCTGTGGAT
AAAAATCAGTGTTCCAACTGTGCCCTGTGCCAGTTCCCTGGATGGTAACAAACCTGCTGAGTCTTCACTTGCA
TTTAGTAATGAAGAAACCTCCACTGAAAAAACAGCAGAAACGGAACTTCACGAAGTCGTGAGGAGAGTGCTGAT
GCTCCAGTAGATCAGAATTCTGTGGTGATTCCAGCTGCTGCAAAGACAAGATTTAGATGGATTAGAACCTTAT
ACTCTCTTAGCAGCAGGCATAGGTGAGGCAATGTCACCCCTCAGATTTAGCCCTTCTTGGGCTGGAAGAAGATGTA
ATGCCACACCAGAACTCAGAAACAAATTCATCTCATGCTCAAAGCCAAAGGGCAAATCCTCACCCATTTGTTCT
ACAACTGGAGACGATAAACTTTGTGCAGACTCTGCATGTCAACAGAACACAGTGACTTCTAGTGCGGATTTGGTT
GCAAACTGTGTGATAACATAGTTAGCGAGTCCGAAAGCACCACAGCAAGGCAACCCAGCTCACAAGATCCACCC
GATGCCCTCCCACTGTGAAGACCCACAGGCTCATAAGTACCTCTGACCCTGTAAGGGATACCCAGGAACGTGCG
GATTTTGTCTTTCAAAGTGGTGGATAACAAAGGCCAACGAAAAGATGTGAACTAGATAAACCTTTAACAAAT
ATGCTTGAGGTGGTTTACATCCACATCCAGTTGTCCCTAAATGGAGAAAGAACTGGTGCCAGACCAGGCAGTA
ATATCAGACAGTACTTTCTCTCTGGCAAACAGTCCAGGCAGTGAATCAGTAACCAAGGATGACGCACTTTCTTTT
GTCCCTCCCAGAAAGAAAAGGGAACAGCAACTCCTGAACTACATACAGCTACAGATTATAGAGATGGCCAGAT
GGAAATTCGAATGAGCCTGATACGCGGCCACTAGAAGACAGGGCAGTAGGCCTGTCCACATCCTCCACTGCTGCA
GAGCTTCAGCACGGGATGGGGAATACAGTCTCACAGGACTTGGTGGAGAGCATGAGGGTCCCGCCCCCTCCAGCA
ATCCAGAAAGCTCTGAATATCAAGGGGAACACTGACTCTTCCCTGCAAAGTGTGGGTAAAGGCCACTTTGGCTTTA
GATTCAGTTTTGACTGAAGAAGGAAAACCTTCTGGTGGTTTCAGAAAGCTCTGCAGCTCAGGAACAAGATAAGGAT
AAAGCGGTGACCTGTTCTCTATTAAGGAAAATGCTCTCTCTTCAGGAACCTTGCAGGAAGAGCAGAGAACACCA
CCTCCTGGACAAGATACTCAACAATTTTCATGAAAAATCAATCTCAGCTGACTGTGCCAAGGACAAAGCACTTCAG
CTAAGTAATTCACCGGTGCATCCTCTGCCTTTCTTAAGGCAGAACTGAACATAACAAGGAAGTGGCCCCACAA
GTCTCACTGCTGACTCAAGGTGGGGCTGCCAGAGCCTGGTGCCACCAGGAGCAAGTCTGGCCACAGAGTCAAGG
CAGGAAGCCTTGGGGGCGAGAGCACAACAGCTCCGCTCTGTTGCCATGTCTGTTGCCAGATGGGTCTGATGGGTCC
GATGCTCTTAACTGCAGTCAGCCTTCTCTCTGGATGTTGGAGTGAAGAACACTCAATCCAGGGGAAAACTAGT
GCCTGTGAGGTGAGTGGAGATGTGACGGTGGATGTTACAGGGGTTAATGCTCTACAAGGTATGGCTGAGCCCAGA
AGAGAGAATATATCACACAACACCCAAGACATCCTGATTCCAAACGTCTTGTGAGCCAAGAGAAGAATGCCGTT

1654/2825
FIGURE 1471B

CTAGGTTTGCCAGTGGCTCTACAGGACAAAGCTGTGACTGACCCACAGGGAGTTGGAACCCCAGAGATGATACCT
CTTGATTGGGAGAAAGGGAAGCTGGAGGGAGCAGACCACAGCTGTACCATGGGTGACGCTGAGGAAGCCCCAAATA
GACGATGAAGCACATCCTGTCTACTGCAGCCTGTTGCCAAGGAGCTCCCCACAGACATGGAGCTCTCAGCCCAT
GATGATGGGGCCCCAGCTGGTGTGAGGGAAGTCATGCGAGCCCCGCCTTCAGGCAGGGAAAGGAGCACTCCCTCT
CTACCTTGCAATGGTCTCTGCCCAGGACGCACCTCTGCCTAAGGGGGCAGACTTGATAGAGGAGGCTGCCAGCCGT
ATAGTGGATGCTGTTCATCGAACAAGTCAAGGCCGCTGGAGCACTGCTTACTGAGGGGGAGGCCTGTACATGTCA
CTGTCCAGCCCTGAGTTGGGTCTCTCACTAAAGGACTAGAGAGTGTCTTTACAGAAAAAGTGAGTACTTTCCCA
CCTGGGGAGAGCCTACCAATGGGCAGTACTCCTGAGGAAGCCACGGGGAGCCTTGAGGATGTTTTGCTGGAAGG
GAGGAGCCAGAGAAGATCATTCTTACCTGTCCAGGGGCTGAGCCAGCAGCAGAAATGCCAGACGTGAAAGCTGAA
GATGAAGTGGATTTTAGAGCAAGTTCAATTTCTGAAGAAGTGGCTGTAGGGAGCATAGCTGTACACTGAAGATG
AAGCAAGGCCCAATGACCCAGGCGATAAACCCAGAAAACTGGTGTACAATAGAGCCATGCCCTGATGCAGCATCT
CTTCTGGCTTCCAAGCAGAGCCCAGAATGTGAGAACTTCTGGATGTTGGACTGGGCAGAGAGTGTACCTCAAAA
CAAGGTGTACTTAAAAGAGAATCTGGGAGTGATTCTGACCTCTTTCACCTACCCAGTGATGACATGGACAGCATC
ATCTTCCCAAAGCCAGAGGAAGAGCATTGGCCCTGTGATATCACCGGATCCAGTTCATCCACCGATGACACGGCT
TCACTGGACCGACATTCTTCTCATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCCAAACAGGTCAAGAGAT
CGGCAAAGCCTTGATGGATTCTACAGCCATGGGATGGGAGCTGAGGGTCGAGAAAGTGAGAGTGAGCCTGCTGAC
CCAGGCGACGTGGAGGAGGAGAGATGGACAGTATCACTGAAGTGCCTGCAAAGTGTCTGTCTTAAGGAGCTCC
ATGCGCTCTCTTTCTCCCTTCCGGAGGCACAGCTGGGGGCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAAC
CACCGGAGTTCAATGCGAGTTCTTGGGGATGTTGTGAGGAGACCTCCCATTCATAGGAGAAGTTTCAGTCTAGAA
GGCTTGACAGGAGGAGCTGGTGTGCGAAACAAGCCATCCTCATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAG
CTCAGACACCCATTAGTGAGTGGTAAGAACGGGTTGACTCTTGGTGTCACTTTCAGAAGAGGATCTGGAGTCAGAC
CAGAGAGAACATAGGATGTTTGATCAGCAGATATGTACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCA
GCCATTTCTCTCCATTGACAAAATCCATCTCATTAATGACAATCAGCCATCCTGGATTGGACAATTCACGGCCC
TTCCACAGTACCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAGAAGAGAAGTATAATTTCTGCCA
CATAGCCCCCTCCAAGAAAGATTCTGAATGGAAGAGTGAACAAAAGTCAGTCGTACATTAGCTACATCAAGAAT
AAAATGTCTAGCAGCAAGAAGAGCAAAGAAAAAGGAAAAAGATAAGATTAAGGAGAAGGAGAAAGATTCT
AAAGACAAGGAGAAAGATAAGAAGACTGTCAACGGGCACACTTTTCAGTTCCATTCTGTGTGGGTCCCATCAGC
TGTAAGCAGTGTATGAAGCCCTTACCAACAAAGATGCCTATACTTGTGCAAATTGCAGTGCTTTTGTCCACAAA
GGCTGCCGAGAAAGTCTAGCCTCCTGTGCAAAGGTCAAATGAAGCAGCCCAAGGGAGCCTTCAGGCACATGAC
ACATCATCACTGCCACGGTCATTATGAGAAACAAGCCCTCACAGCCCAAGGAGCGTCTCGGTCCGCAGTCCTC
CTGGTGGATGAAACCGCTACCACCCCAATATTTGCCAATAGACGATCCAGCAGAGTGTCTCGCTCTCCAAAAGT
GTCTCCATACAGAACATTACTGGAGTTGGCAATGATGAGAACATGTCAAACACCTGGAAATTCCTGTCTCATTCA
ACAGACTCACTAAATAAAATCAGCAAGGTCAATGAGTCAACAGAATCACTTACTGATGAGGGAGTAGGTACAGAC
ATGAATGAAGGACAACACTACTGGGAGACTTTGAGATTGAGTCCAAACAGCTGGAAGCAGAGTCTTGGAGTCGGATA
ATAGACAGCAAGTTTCTAAAACAGCAAAAGAAAGATGTGGTCAAACGGCAAGAAGTAATATATGAGTTGATGCAG
ACAGAGTTTCATCATGTCCGCACTCTCAAGATCATGAGTGGTGTGTACAGCCAGGGGATGATGGCGGATCTGCTT
TTTGAGCAGCAGATGGTAGAAAAGCTGTTCCCTGTTTGGATGAGCTGATCAGTATCCATAGCCAATTCCTCCAG
AGGATTCTGGAGCGGAAGAAGGAGTCTCTGGTGGATAAAAGTGAAAAGAACTTTCTCATCAAGAGGATAGGGGAT
GTGCTTGTAATCAGTTTTTCAGGTGAGAATGCAGAACGTTTAAAGAAGACATATGGCAAGTTTTGTGGGCAACAT
AACCAGTCTGTAAACTACTTCAAAGACCTTTATGCCAAGGATAAGCGTTTTTCAAGCCTTTGTAAAGAAGAAGATG
AGCAGTTTCAGTTGTTAGAAGGCTTGGAATTCCAGAGTGATATTGCTTGTAACCTCAGCGGATTACCAAGTACCCA
GTTTTTATTCCAAAGAAATATTGCAGTGTACCAAAGACAATGAAGTGGAGCAGGAAGATCTAGCACAGTCCCTTGAGC
CTGGTGAAGGATGTGATTGGAGCTGTAGACAGCAAAAGTGCCAAGTTATGAAAAGAAAGTGCCTCTCAATGAGATT
TATACAAAAGACAGATAGCAAGTCAATCATGAGGATGAAGAGTGGTCAGATGTTTGCCAAGGAAGATTTGAAACGG
AAGAAGCTTGACGTGATGGGAGTGTGTTTCTGAAGAATGCAGCAGGAAGGTTGAAAGAGGTTCAAGCAGTTCTT
CTCACTGACATTTTAGTTTTCTTCAAGAAAAAGACCAGAAGTACATCTTTCATCATTGGACCAGAAGTCAACA
GTGATCTCTTTAAAGAAGCTGATTGTGAGAGAAGTGGCACATGAGGAGAAAGGTTTTATTCCTGATCAGCATGGGG
ATGACAGATCCAGAGATGGTAGAAGTCCATGCCAGCTCCAAAGAGGAACGAAACAGCTGGATTAGATCATTTCAG

1655/2825
FIGURE 1471C

GACACAATCAACACCCTGAACAGAGATGAAGATGAAGGAATTCCTAGTGAGAATGAGGAAGAAAAGAAAATGTTG
GACACCAGAGCCCGAGAATTAAAAGAACTTACCAGAAAGGACCAAAAAATCCTACTCTTGTTGGAAGAGAAG
GAGATGATTTTCCGGGACATGGCTGAGTGCAGCACCCCTCTCCAGAGGATTGCTCCCCAACACATAGCCCTAGA
GTTCTCTTCCGCTCCAACACAGAAGAGGCTCTCAAAGGAGGACCTTTAATGAAAAGTGCAATAAATGAGGTGGAG
ATCCTTCAGGGTTTGGTGAGTGGAAATCTGGGAGGCACACTTGGGCCGACTGTCAGCAGCCCCATTGAGCAAGAT
GTGGTCCGTTCCCGTTTCCCTGCCCCGGAGAGCAGAGACCTTTGGAGGATTTGACAGCCATCAGATGAATGCTTCA
AAAGGAGGCGAGAAGGAAGAGGGAGATGATGGCCAAGATCTTAGGAGAACGGAATCAGATAGTGGCCTAAAAAG
GGTGAAATGCTAACCTGGTATTTATGCTTAAAAGAAACAGTGAGCAGGTTGTCCAGAGCGTTGTTTCACTCTTAC
GAGCTCCTCAGCGCTCTGCAGGGTGTGGTGTCTGCAGCAGGACAGCTACATTGAGGACCAGAACTGGTGCTGAGC
GAGAGGGCGCTCACTCGCAGCTTGTCCCGCCGAGCTCCCTCATTGAGCAGGAGAAGCAGCGCAGCCTGGAGAAG
CAGCGCCAGGACCTGGCCAACCTGCAGAAGCAGCAGGCCAGTACCTCGAGGAGAAGCGCAGGCGCGAGCGTGAG
TGGGAAGCTCGTGAGAGGGAGCTGCGGGAGCGGGAGGCCCTCCTGGCCAGCGCGAGGAGGAGGTGCAGCAGGGG
CAGCAGGACCTGGAAGAGCGGGAGGAGCTCCAGCAGAAGAAGGGCACATAACCAGTATGACCTGGAGCGACTG
CGTGCTGCCAGAAACAGCTTGAGAGGGAACAGGAGCAGCTGCGCCGGGAGGCAGAGCGGCTCAGCCAGCGGCAG
ACAGAACGGGACCTGTGTGAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCTT
GAGGAGCCCCCTCGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTAGTGTTCCCCA
AAAAGGAACAGCATCTCTCGGACACACAAAGATAAGGGGCCTTTTACATACTGAGTTCAACCAGCCAGACAAAC
AAAGGACCAGAAGGGCAGAGCCAGGCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTAAACAAAGCCA
AAGGAAAAAGAGGAGAAAAAAGAAGAACAACACAGCCGCTCTCAGCCCGGTGATGGTCCCGCGTCAGAAAGTA
TCAGCAGAGGGTGAAGAGATCTTCTGCTGACCCTCTTCTCTCTGCTGAGGCAGCTGCCTCCTGATCCTGGCCAG
CCCACCTCTCCTGCTGTCCCGCGGTGCACAAGTCTCTTACACTGGACGCCCACTGCTCCTCAGCGTCCAGTCTCTC
CTGGGCGGCCCCAGGTCCTGGACAATAAGCAACAGATGATATTGAGTGTGCGGTGGGGAAGGAGGCCCAGACTCT
GCTTCGGCCATGATTTGTGACTGCCCAGGACTCTCAGGTTGGGCTGGCCCTACTCAGGATTACACTGAAAAGTAAT
GGCCTCGTAAGTACAGGTGATGGTTTTGGACACGTCAGGAATTCCTAAAGGCTGAAAGAGTGATCCAAGTAAGG
TCTGAACCTCCGACTGCCTTTTATTTGGGGGAACACAAAACCAAACAGCAGATGTTTTGGACTTGATCTGTGTAC
GTACATGGGGACCTGTCTGCATATACACACGGGGAATGCCAGAAGAAGGCCAGTCTGCACCAGGCGTCTGGTCA
ACTTAGCACAAAGGGCAGTGCCTGGACGGACCCGGAGCCCCCGCATATCAGCAGTTCACCCAGTACTCCTCAGAGA
CTGGTTTTCCCTCTAAACCCATCCCGGGCACATACCACCCCTGTTTTGCATGTATTTCTCATTTTCAATTTAGGGAT
GACAAACATTTGTGAAACCAGTGAGAGAAGGCTTGATGTGTATAAAAGACGTGATGTGCACCACCTCGATCTCGG
TGTTTCAGGCACTAAAGCAACAAACAACCCATAGTATCTCATTTTGTATCAGATCCAGAAGAAATATCCTGGT
TTTCCAGCATGTTTACCCACATGTTTTGGGCATGGATAAAGTGAAGAGGCCTACTCACCATTATCCCTGCAGCGT
GACACCTTTTGATTGTCACTGACCACTCAGAAGGGGCCACGGCCTCCTGGCTGTGTTTCTGAGCCCCCGTCTGTG
CTCTCCAGACAGCAGCTGTCTGGCCCTTGCTGGGTGAGGGCACACCACTGCCAGGGGTGAGCCTCGCACCCAGG
CCAGGCAGAAGCTGTGCTCTGAAGCTAGGACAGCTGGCTGAGAAGTGGGTTGAGGCGAAGGGTGAAGCCATGTGT
AGCAGTTCCTGCCAGTGCAGATCTGGAGAGGAGCTGGCCCGGAAGGCGTGGTTGTGAAAGCGCCCTTCTTATGTT
AGGAGGCCCTTGGAATAATTGGATTTCTTCAAAAATACATGTAAAGGTCTGTTGTTGAATTGTACTCTGCCCTGG
AAGCAGATACAGATGGCTGCCTGCTGCTCGGCTTTGCTTTTGCTTTTCCCACCGTGTTTTCATCTTTGTTCACTT
GAGGCTTTCCCCAGCTGGTGTGTGCAGGACAGTTTATGGTAATGTTGCCCTCTGAGGCCCCGTACACCAGAAGGG
AGGCCCTGGAAAAATTTTGTGCTTCCAACGTGGCCTTCAATCTTGCTTTTTTGCCCTCGGAAGCATGGGGCTTT
TGAGCACACTTAAAAAATAAACCGGAATTC

1656/2825
FIGURE 1472

MKLNPPQAPLYGDCVVTVLLAEEDKAEDDVVFYLVFLGSTLRHCTSTRKVSSDTLETIAPGHDCCE TVKVQLCAS
KEGLPVFVVAEEDFHFVQDEAYDAAQFLATSAGNQQALNFTRF LDQSGPPSGDVNSLDKKLVLAFRHLKLPTEWN
VLGTDQSLHDAGPRETLMHFAVRLGILLRLTWFL LQKPGGRRALS IHNQEGATPVSLALERGYHKLHQLL TEENAG
EPDSWSSLSYEIPYGDCSVRHHRELDIYTLTSESDSHHEHPFPGDGCTGPIFKLMNIQQQLMKTNLKQMDSLMPL
MMTAQDPSSAPETDGQFLPCAPEPTDPQRLSSSEETESTQCCPGSPVAQTESPRDLSSIVEEENTDRSCRKKNKG
VERKGEEVEPAPIVDSGTVSDQDSC LQSLPDCGVKGTEGLSSCGNRNEETG TKSSGMP TDQESLSSGDAVLQ RDL
VMEPGTAQYSSGGELGGISTTNVSTPDTAGEMEHLMPNDATVWKNVLQGGESTKERFENS NIGTAGASDVH VTS
KPVDKISVPNCAPAASSLDGNKPAESSLAFSNEETS TEKTAETETSRSC EESADAPVDQNSVVIPAAAKDKISDG
LEPYTLLAVGIGETMSPPDLALLGLEEDVMPHQNSE TNSSHAQSQKGKSPICSTTGDDKLCADSACQ QNTVTSS
GDLVAKLCDNIVSESESTTARQPSSQDPPDASHCEDPQAHTVTS DPVVRTQERADFCPFKVVDNKGQRKDV KLDK
PLTNMLEVVSHPHPVVPKMEKELVPDQAVISDSTFSLANSPGSESVTKDDALS FVPSQKEKGTATFELHTATDYR
DGPDGNSNEPDTRPLEDRAVGLSTSSTAELQHGMGNTSLTGLGGEHEGPAPPAIPEALNIKGNTDSSLQSVGKA
TLALDSVLTEEGKLLVVSESSAAQE QDKDKAVTCSSIKENALSSGTLQEEQRTPPPQD TQQFHEKSI SADCAKD
KALQLSNSPGASSAFLKAETEHNKEVAPQVSLLTQGGAAQSLVPPGASLATESRQEALGA EHNSSALLPCLLPDG
SDGSDALNCSQPSPLDVG VKNTQSOGKTSACEVSGDVTVDVTGVNALQGM AEP RRENISHNTQDILIPNVLLS QE
KNAVLGLPVALQDKAVTDPQGVGTPEMIPLDWEKGKLEGADHSCTMGDAEEAQIDDEAHPVLLQPVAKELPTDME
LSAHDDGAPAGVREVMRAPP SGRERSTPSLPCMVS AQDAPLPKGADLIEEAASRIVDAVIEQVKAAGALLTEGEA
CHMSLSSPELGPLTKGLESAFTEKVSTFPPGESLPMGSTPEEATGSLAGCFAGREEPEKIILPVQGP EPAAEMPD
VKAEDEVD FRASSISEEVAVGSIAATLKMKQGPMTQAINRENWCTIEPCPD AASLLASKQSPECENFLDVGLGRE
CTSKQGV LKRESGSDSDLFHSPSDDMSIIFPKPEEEHLACDITGSSSSTDDTASLDRHSSHGSDVSLSQILKPN
RSRDRQSLDGFYSHGMGAEGRESESEPADPGDVEEEEEMDSITEVPANC SVLRSSMRSLSPFRRHSWGP GKNAASD
AEMNHRSSMRVLGDVVRPPIHRRSFSLEGLTGGAGVGNKPSSSLEVSSANA EELRHPFSGEERVDSLVS LSEED
LES DQREHRMFDQQICHRSKQQGFNYCTSAISSPLTKSISLMTISHPGLD NSRPFHSTFHNTSANLTESITEENY
NFLPHSPSKKDSEWKS GTKVSRFTSYIKNMSSSKKSKEKEKEKD KIKEKEKDSKDKEKD KKT VNGHTFSSIPVV
GPISCSQCMKPF TNKDAYTCANCSAFVHKGCRESLASC AKVKMKQPKGSLQA HDTSSLPTVIMRNKPSQP KERPR
SAVLLVDETATTPIFANRRSQQSVLSKSVSIQNI TGVGN DENMSNTWKFLSHSTDSL NKISKVNESTESLTDEG
VG TDMNEGQLLGDFEIESKQLEAESWSRIIDSKFLKQQKKDVVKRQEV IY

1657/2825
FIGURE 1473A

CTGCGGTCCAGTCTAGGGGGTCTCAGATTGGCGGGGATGGGCAGCAGCGGCAGGTGGCCTTGGCTTTTGCTGCAG
CCGTCAACGACCTATCATCGGGGTCTGCGTAAGGTCCGGCTGGCTGGGACTTGGCTGTGGGTGGGATGGACTGG
CTGCCGGACCGAGTGCCCTGCAGTTGGTAGGAGTATGAGGCAGAGTGATGCACACCCGGGCGCCAGCATCGTTC
TAATTGCCGGAGACATTGCCTCAGACTGTGCGCTGCTAGAGGCTGCGTTCTGAGCAGGAAGCCCGTTTCTGGG
ATTGGAAC TACCCTTCTTGGCCAGCGGGAAAGTCCCCAAGGACGGAGTCGAAAGGTCAAATCTTATCTGTCAGTGC
TGTGTGACAGCATCGCAACGGGATCTGCAGAACCTGAACTCGATCCGTAATGCCTCCTGCCTGCCTCTTTCAAGA
TGGAGGTGAAACCTGTGGGAGAACCTACTCAAGAGGTGTCTAAATTCAAACCTTTCCACCAAGGTAGAAAGCACGG
GACACTGGCTGGTGGAGATCATGTTTGAATATGGGAAGTTTTAAAGACAGAGGAGAGCTCGATT CAGGACTGGG
GTGAAGAGGTAGAGGAAGGAGCTGTTTACCATGTCACCTCAAAGAGTCCAGATTCAACAGGCTGCCAATAAAG
GAGCAAGATGGCTAGGGGTTGAAGGGGACCAGCTGCCTCCAGGACACACAGTCAGTCAATATGAAACCTGTAAAG
TCAGGACCATAAAAGCTGGCACCTTGGAGAAGCTTGTGGAGAACCTGCTGACAGCTTTTGGGGACAATGACTTTA
CCTATATCAGCATCTTTCTTTCAACGTACAGAGGCTTTCCTCCACTAAAGAAGTGCTGGAAC TACTGCTGGACA
GGTATGAAAACCTGACAAGCCCAAACCTGTGAAGAAGATGGAAGCCAAAGTTCATCAGAGTCCAAAATGGTGATCA
GGAATGCAATCGCTTCCATACTAAGGGCCTGGCTTGACCAGTGTGCAGAAGACTTCCGAGAGCCCCCTCACTTCC
CTTGCTTACAGAACTGCTGGATTATCTCACACGGATGATGCCGGGCTCTGACCCAGAAAGAAGAGCACAAAATC
TTCTTGAGCAGTTTCAGAAGCAAGAAGTGGAACCTGACAATGGGCTTCCCAACACGATCTCCTTCAGCCTGGAAG
AGGAAGAGGAAC TGGAGGTGGAGAGTCAGCAGAATTCACGTGCTTCTCAGAAGATCTCGTGGCAGAGCAGCTGA
CCTACATGGATGCACAACCTCTTCAAGAAAGTAGTGCTCACCCTGCTGGGCTGCATTTGGTCTCGAAGGGATA
AGAAGGAAAACAAACATTTGGCTCCTACGATCCGTGCCACCATCTCTCAGTTTAATACCCTCACC AAAATGTGTTG
TCAGCACCATCCTGGGGGGCAAAGAACTCAAAACTCAGCAGAGAGCCAAAATCATTGAGAAGTGGAATCAACATCG
CTCATGAATGTAGACTCCTGAAGAATTTTTCTCCTTGAGGGCCATCGTTTCGGCACTGCAGTCTAATTCATCT
ATCGGTTAAAAAAGACTTGGGCTGCCGTCCCAAGGGACCGAATGCTGATGTTTGAAGAACTTT CAGATATCTTCT
CAGACCATAATAACCATTTGACCAGCCGAGAACTACTGATGAAGGAAGGAACCTCAA AATTTGCAAACCTGGACA
GCAGTGTGAAAAGAAAACCAGAAGCGTACCCAGAGGCGGCTGCAGCTCCAGAAGGACATGGGTGTGATGCAGGGAA
CTGTGCCCTACCTGGGCACCTTCTGACTGACCTGACCATGCTTGACACTGCCCTTCAGGACTACATCGAGGGTG
GACTGATAAACTTTGAGAAAAGGAGAAGGGAATTTGAAGTGATTGCCAGATAAAGCTCTTACAGTCTGCCTGCA
ACAGCTATTGCATGACCCAGACCAAAGTTCAATCCAGTGTTCCAGAGGCAGCAGCTCCTGACAGAGGAGGAGA
GCTATGCCCTGTCTATGTGAGATTGAAGCAGCTGCTGACGCCAGCACCACTCGCCCAAGCCTCGGAAGAGCATGG
TGAAGAGACTCAGCCTACTGTTTCTAGGGTCTGACATGATCACCAGTCCCCTCCCAAGAGCAGCCCAAGT
CCACTGCCAGCGGGAGCTCTGGTGAAAGCATGGACTCTGTGACCGTGTCTCCTGCGAGTGAACCACTCAGAGG
CTGAGGAGGGCTCCATTACTCCCATGGACACCCCTGATGAGCCTCAAAAAAGCTCTCTGAGTCTCCTCATCCT
GTTCTTCTATCCATTCCATGGACACAAATTCCTCAGGGATGTCTTCTTAATCAACCCCTCTCCTCCCTCCGT
CCTGCAACAACAACCCCAAATCCACAAGCGCTCTGTCTCGGTGACGTCCATTACCTCGACTGTGCTGCCTCCTG
TTTACAACCAACAGAATGAAGACACCTGCATAATCCGCATCAGTGTGGAAGACAATAACGGCAACATGTACAAGA
GCATCATGTTGACGAGCCAGGATAAAACCCCGCTGTGATCCAGAGAGCCATGCTGAAGCACAATCTGGACTCAG
ACCCCGCCGAGGAGTACGAGCTGGTGCAGGTTCATCTCGGAGGACAAAAGAACTTGTGATTCCAGACTCAGCAAATG
TCTTTTATGCCATGAACAGCCAAGTGAAC TTTGACTTCATTTTGCGCAAAAAGAACTCCATGGAAGACAAGTGA
AACTGCGTAGCCGGACAGCTTGACGTTGCCAGGACAGCTAAACGGGGCTGCTGGAGTTACAGACACAGCAAAA
TCACCCTCTGAAGGGAGGGMCCAGTGGCCCTTGTTTGCCAAAGGCAGAGTGGGGCTGAGAAACAGGCTGCGGTG
ATTGCAATTACCATCCGGTGTTGAGGATCATTTGGTGAAGTCAGCAGATATTTATTGAGTTCTGTGGTGTGCAA
AGCATTATGATAGGCACCGTGGGGAACTGGAAATGAATTTGACATGAAAAGGATGAACGATTCACTGATTCTCT
TTGACTCATTTGAGACTAAAATGCAGAATTACCAACATTTAAAAACATATATATGCACATGTATTTGGTATGCATG
TGTATCTATATAAAAAATATATAAGAGGGACTTTATGGGATAGTATGGACTATGGA AAAACAAATTTGCACAATGG
CCTGGGAAGTTGAGGTCACTTTTTACAGGGAAATAGAAGAACTGAGAACCTAGTCTCGTATATTCTGAGTAAAT
GGAATCAGTCTTGGGAATAGAGAGTGTCCTTTGTGCCAGTATTACAAGAAGCCCAAAC TTTATTTTTATAAAGGG
AGAGGATGACTTTTCTCAATCAAGTGCCACCAGATAAAAACAACCTGCAGAGGCTGGAAC TGCCACAGGCTGTATGA
AAGGCCACTTTTGAAAAGGTTTGGATGAGCTGGTGGCCTTCAACCTCTGCCTGCATCTGCCACTTTCTGCTACCC
TAGGGAGGCCAGGAGGAGCTTCGGAGGACCATCGCCCACTGGTCTAGCCATCATGACACCTCTGGAGGTGTCAA

1658/2825
FIGURE 1473B

GCTCCTGAAACAAGCTCATTTCAGTTTCTGGCAACCCCGTGATTTCCGTTTTCCCCCTAAAGAACATATCATAA
TCATTGCACAAATAACCATGTTCTTTGGTAATGAAGCCAGAAAAGAAAGCGCAAAAGAATGGTGACTCATTTGGA
CTCTTATCTGTCCTTGGGAATGTCAGTCTTCATTGCTTCTCTGATTGCTTTTTGCATGTAAAACTATGTGTCTGG
AGTCTTTTTGCCATCTGGATCTTAGTACCTCTTTATTATGTGCAATTTATTCCTCAGGTGTGGAAATTTCTACTGC
AATTGACTGACGTKTGATTATTTTGGAGCTTGTGAAAGATTTCTGAACAGTGATTGTCCCGTTAATAGCCCCCTCAG
AAGATGTTCCCTGCTGATAACAGCATCCTATTTTACTTACTTTTATAGCATTACTGTGCCTAGTCGTGGGGAAAG
AGATGGGGCTGTATAGATTATCTGAATCATTTGTCTAAGAGGTACATTCTTCCAGATGGAATCAATAACTTTTTT
TTTTCCAGGTTCCTGCTTGCTATCACAGTATCATTGTTAAGTGACACTTTTGTCTCTCATAACACCATCACAC
TCTTCCTTCCAAGTCTGAGCTGTGCTGGGGTTTGAAGTAAAGCCATATGTGGAATATTGACATGTGTAAGAAGC
ACTTTCAGAAATGTTGTCCTTTTTAAGAAATGATTCTCAAAATACCAGTTTTTATTCCAAAAATTTAGAGAACAAA
CCCGGAATATGAAGTGCAGATTGTAACATGGAGCTATTTTTTTTTTCTAATCCATAATACAGCTCCTAAAAGTT
GTGTGGGATTTGCGTTGCATAAATAGCCATGTGAATTCACAAGAAGCACCAGGGAAAGTTTAGAGATTTGCGGC
AATGGACCGAAGAACGGGCCAGGAAGTCCTCCAATTTCTTTGGTCTTTCCAGGAGATTGGACTACACATTGTAA
AGACTGACTGGGTTTCAACTAGTCAAAAAGCACTTTCTTCTGTTTTCAATCCCTGTTTCGATTTGTGCTTCTGTGC
TTGTAGGAGAGATGGCCAGGGTGGCAGCCCTCATGCAGGTTGAAGTATATGTAGCCTCAGCCTGATATTCTTGGT
GCGAAGGTAAAAAAAAAAAAAAAAATAAATAAAACCATTGGCCTGGTTGAGGGCGTGACCACCAAGACATATATGTTG
TGCCCGTGTTTCATCCTGTGTATTTATACTGTATATGTAGAGTCTAGATTTATATACTGCAATGTAAATATATAT
ATATTTACCTTTTTTAAAGACAATGGAAATTCCAAGTAGCTAAACTTAGCTTCATTTATTTAATGCCACTTTAA
ATGTCTTAAATTTGTTTCCTGGTGGACAGCCGGGTAATGCTTTTAGCTGCTCGCATGCTTGTCTTTCTGCATCTC
CATCATCTGTTTACCTTTTGGTTAAACTAATAAACTAGTTTGGGACTTGGCTGGCATGTGCTGCCAGACCCAAAG
GGAAAAAAAAAA

1659/2825
FIGURE 1474

MEVKPVGEPTQEVSKFKLSTKVESTGHWLVEDHVRIWEVLKTEESSIQDWGEEVEEGAVYHVTCLKRVQIQQAANK
GARWLGVEGDQLPPGHTVSQYETCKIRTIKAGTLEKLVENLLTAFGDNDFTYISIFLSTYRGFASTKEVLELLLD
RYGNLTSPNCEEDGSQSSSESKMVIRNAIASILRAWLDQCAEDFREPPHFPCLQKLLDYLTRMMPGSDPERRAQN
LLEQFQKQEVETDNGLPNTISFSLEEEEELEGGESAEFTCFSEDLVAEQLTymdaQLFKKVVPPhHCLGCIWSRRD
KKENKHLAPTIRATISQFNTLTkCVVSTILGGKELKTQQRAKIIEKWINIAHECRLLNKFNSSLRAIVSALQSNISI
YRLKKTWAAVPRDRMLMFEELSDIFSDHNNHLTSRELLMKEGTSKFANLDSSVKENQKRTQRRQLQKDMGVMQG
TVPYLGTFITDITMLDTALQDYIEGGLINFKRRREFEVIAQIKLLQSACNSYCMTPDQKFIQWFQRQQLLTEEE
SYALSCEIEAAADASTTSPKPRKSMVKRLSLFLGSDMITSPPTKEQPKSTAGSSGESMDSVSVSSCESNHSE
AEEGSITPMDTPDEPQKKLSESSSSCSSIHSMDTNSSGMSSLINPLSSPPSCNNNPkIHKRSVSVTSITSTVLPP
VYNQQNEDTCIIRISVEDNNGNMYKSIMLTSQDKTPAVIQRAMLKHNLDSDPAEEYELVQVISEDKELVIPDSAN
VFFAMNSQVNFDFILRKKNMEEQVKLSRSTSLTLPTAKRGCSYRHSKITL

1660/2825
FIGURE 1475

CTCCACTGACCGTCCCGACG**AT**GCTACGCGCGCCCCGGCTGCCTCCTCCGGACCTCCGTAGCGCCTGCCGCGGCCC
TGGCTGCGGCGCTGCTCTCGTCGCTTGC GCGCTGCTCTCTTCTAGAGCCGAGGGACCCGGTGGCCTCGTCGCTCA
GCCCCATTTTCGGCACCAAGACTCGCTACGAGGATGTCAACCCCGTGCTATTGTGCGGGCCCCGAGGCTCCGTGGC
GGGACCCTGAGCTGCTGGAGGGGACCTGCACCCCGGTGCAGCTGGTCGCCCTCATTTCGCCACGGCACCCGCTACC
CCACGGTCAAACAGATCCGCAAGCTGAGGCAGCTGCACGGGTTGCTGCAGGCCCGCGGGTCCAGGGATGGCGGGG
CTAGTAGTACCGGCAGCCGCGACCTGGGTGCAGCGCTGGCCGACTGGCCTTTGTGGTACGCGGACTGGATGGACG
GGCAGCTAGTAGAAAAGGGACGGCAGGATATGCGACAGCTGGCGCTGCGTCTGGCCTCGCTCTTCCCGGCCCTTT
TCAGCCGTGAGAACTACGGCCGCCTGCGGCTCATCACCAGTTCCAAGCACCGCTGCATGGATAGCAGCGCCGCCT
TCCTGCAGGGGCTGTGGCAGCACTACCACCCTGGCTTGCCGCCCGCGGACGTGCGAGATATGGAGTTTGGACCTC
CAACAGTTAATGATAAACTAATGAGATTTTTTGTACTGTGAGAAGTTTTTAACTGAAGTAGAAAAAAATGCTA
CAGCTCTTTATCACGTGGAAGCCTTCAAACTGGACCAGAAATGCAGAACATTTTAAAAAAGTTGCAGCTACTT
TGCAAGTGCCAGTAAATGATTTAAATGCAGATTTAATTCAAGTAGCCTTTTTACCTGTTTCAATTTGACCTGGCAA
TTAAAGGTGTTAAATCTCCTTGGTGTGATGTTTTTGACATAGATGATGCAAAGGTATTAGAATATTTAAATGATC
TGAAACAATATTGGAAAAGAGGATATGGGTATACTATTAACAGTCGATCCAGCTGCACCTTGTTTCAGGATATCT
TTCAGCACTTGGACAAAGCAGTTGAACAGAAACAAAGGTCTCAGCCAATTTCTTCTCCAGTCATCTCCAGTTTG
GTCATGCAGAGACTCTTCTTCCACTGCTTTCTCTCATGGGCTACTTCAAAGACAAGGAACCCCTAACAGCGTACA
ATTACAAAAACAAATGCATCGGAAGTTCCGAAGTGGTCTCATTGTACCTTATGCCTCGAACCTGATATTTGTGC
TTTACCCTGTGAAAATGCTAAGACTCCTAAAGAACAAATCCGAGTGCAGATGTTATTAAATGAAAAGGTGTTAC
CTTTGGCTTACTCACAGAAACTGTTTCATTTTATGAAGATCTGAAGAACCCTACAAGGACATCCTTCAGAGTT
GTCAAACCAGTGAAGAATGTGAATTAGCAAGGGCTAACAGTACATCTGATGAAGT**AG**TAAGTGAAGAACATT
TTTAATTCTTTAGGAATCTGCAATGAGTGATTACATGCTTGTAATAGGTAGGCAATTCCTTGATTACAGGAAGCT
TTTATATTACTTGAGTATTTCTGTCTTTTACAGAAAAACATTGGGTTTCTCTCTGGGTTTGGACATGAAATGTA
AGAAAAGATTTTTCACTGGAGCAGCTCTCTTAAGGAGAAACAAATCTATTTAGAGAAACAGCTGGCCCTGCAAAT
GTTTACAGAAATGAAATTCTTCTACTTATATAAGAAATCTCACACTGAGATAGAATTGTGATTTTATAATAACA
CTTGAAAAGTGCTGGAGTAACAAATATCTCAGTTGGACCATCCTTAACCTTGATTGAAGTGTCTAGGAACCTTAC
AGATTGTTCTGCAGTTCTCTCTTTCTTTTCTCAGGTAGGACAGCTCTAGCATTTTCTTAATCAGGAATATTGTGG
TAAGCTGGGAGTATCACTCTGGAAGAAAGTAACATCTCCAGATGAGAATTTGAAACAAGAAACAGAGTGTTGTAA
AAGGACACCTTCACTGAAGCAAGTCGGAAGTACAATGAAAATAAATATTTTTGGTATTTATTTATGAAATATTT
GAACATTTTTTCAATAATTCCTTTTTTACTTCTAGGAAGTCTCAAAGACCCTTAAATTATTATATGTTTGGAC
AATTAGCAACAAGTCAGATAGTTAGAATCGAAGTTTTTCAAATCCATTGCTTAGCTAACTTTTTCAATCTGTAC
TTGGCTTCGATTTTTATATTTTCTATTATATGAAATGTATCTTTTGGTTGTTTGATTTTTCTTTCTTTCTTTGT
AAATAGTTCTGAGTTCTGTCAAATGCCGTGAAAGTATTTGCTATAATAAGAAAATCTTGTGACTTTAAAAAAA
AAAAAAAAAAAA

1661/2825
FIGURE 1476

MLRAPGCLLRTSVAPAAALAAALLSSLARCSLLEPRDPVASSLSPLYFGTKTRYEDVNPVLLSGPEAPWRDPELLE
GTCTPVQLVALIRHGTRYPTVKQIRKLRQLHGLLQARGSRDGGASSTGSRDLGAALADWPLWYADWMDGQLVEKG
RQDMRQLALRLASLFPALFSRENYGRLRLITSSKHRCMDSSAAFLOGLWQHYHPGLPPPDVADMEFGPPTVNDKL
MRFFDHCEKFLTEVEKNATALYHVEAFKTGPEMQNILKKVAATLQVPVNDLNADLIQVAFFTCSEFDLAIKGVKSP
WCDVFDIDDAKVLEYLNDLKQYWKRGYGYTINSRSSCTLFQDIFQHLDKAVEQKQRSQPISSPVILQFGHAETLL
PILLSLMGYFKDKEPLTAYNYKKQMHRKFRSGLIVPYASNLI FVLYHCENAKTPKEQFRVQMLLNEKVLPLAYSQE
TVSFYEDLKNHYKDILQSCQTSEECELARANSTSDEL

1662/2825
FIGURE 1477

ACTGCCACCTCGGTTCGGTTCGGTGCTTACTTCGCTGCCAGCTGGTCTGTCGCC**ATGA**ACCCGGACCTGCGCAGGGA
GCGGGATTCCGCCAGCTTCAACCCGGAGCTGCTTACACACATCCTGGACGGCAGCCCCGAGAAAACGCGGCGCCG
CCGAGAGATCGAGAACATGATCCTGAACGACCCAGACTTCCAGCATGAGGACTTGAACCTTCTAACTCGCAGCCA
GCGTTATGAGGTGGCTGTCAGGAAAAGTGCCATCATGGTGAAGAAGATGAGGGAGTTTGGCATCGCTGACCCTGA
TGAAATTATGTGGTTTAAAAAACTACATTTGGTCAATTTTGTGGAACCTGTGGGCCTCAATTACTCCATGTTTAT
TCCTACCTTGCTGAATCAGGGCACCCTGCTGAGAAAGAGAAAATGGCTGCTTTCATCCAAAGGACTCCAGATAAT
TGGCACCTACGCCCAGACGGAAATGGGCCACGGAACCTCACCTTCGAGGCTTGAAACCACAGCCACGTATGACCC
TGAAACCCAGGAGTTCAATCTCAACAGTCCTACTGTGACCTCCATTAAATGGTGGCCTGGTGGGCTTGAAAAAC
TTCAAATCATGCAATAGTCCTTGCCAGCTCATCTAAGGGGAAATGCTATGGATTACATGCCTTTATCGTACC
TATCCGTGAAATCGGGACCCATAAGCCTTTGCCAGGAATTACCGTTGGTGACATCGGGCCCAAATTTGGTTATGA
TGAGATAGACAATGGCTACCTCAAATGGACAACCATCGTATTCCCAGAGAAAACATGCTGATGAAGTATGCCCA
GGTGAAGCCTGATGGCACATACGTGAAACCGCTGAGTAACAAGCTGACTTACGGGACCATGGTGTGTTGTCAGGTC
CTTCCTTGTTGGGAGAAGCTGCTCGGGCTCTGTCTAAGGCGTGACCATTGCCATCCGATACAGCGCTGTGAGGCA
CCAGTCTGAAATGAAGCCAGGTGAACCAGAACCACAGATTTTGGATTTTCAAACCCAGCAGTATAAACTCTTTCC
ACTCCTGGCCACTGCCTATGCCTTCCAGTTTGTGGGCGCATACATGAAGGAGACCTATCACCGGATTAACGAAGG
CATTGGTCAAGGGGACCTGAGTGAAGTGCCTGAGCTTCATGCCCTCACCGCTGGACTGAAGGCTTTACCTCCTG
GACTGCAAACTGTCGCTGAGTGAAGCATGTGCGATGGCTTGTTGGTGGGCATGGCTATTCTCATTGCAGTGGTCTTCC
AAATATTTATGTCAATTTACCCCAAGCTGTACCTTTGAGGGAGAAAACACTGTCATGATGCTCCAGACGGCTAG
GTTCTGATGAAAAGTTATGATCAGGTGCACTCAGGAAAAGTTGGTGTGTGGCATGGTGTCTATTTGAACGACCT
GCCCAGTCAGCGCATCCAGCCACAGCAGGTAGCAGTCTGGCCAACCATGGTGGATATCAACAGCCCCGAAAAGCCT
AACCGAAGCATATAAACTCCGTGCAGCCAGATTAGTAGAAAATTGCTGCAAAAAACCTTCAAAAAGAAAGTGATTCA
CAGAAAAAGCAAGGAGGTAGCTTGGAACCTAACTTCTGTTGACCTTGTTTCGAGCAAGTGAGGCACATTGCCACTA
TGTGGTAGTTAAGCTCTTTTCAGAAAACTCCTCAAATTCAGATAAAGCCATTCAAGCTGTCTTAAGGAGTTT
ATGTCTGCTGTATTCTCTGTATGGAATCAGTCAGAACGCGGGGGATTTCCTTCAGGGGAGCATCATGACAGAGCC
TCAGATTACACAAGTAAACCAGCGTGTAAGGAGTTACTCACTCTGATTTCGCTCAGATGCTGTTGCTTTGGTTGA
TGCATTTGATTTTCAGGATGTGACACTTGGCTCTGTGCTTGGCCGCTATGATGGGAATGTGTATGAAAACCTGTT
TGAGTGGGCTAAGAACTCCCCACTGAACAAAGCAGAGGTCCACGAATCTTACCACAAGCACCTGAAGTCACTGCA
GTCCAAGCTCT**TGA**AGTGTACAAAGGACAAGTTTAATCTGCTTCAGAAAGCGCCTGTGTGCAACTCAAATTTGTG
GAATCTTTTCGAATTCAAATAGCTATAGAGCAAATGATAAATTGACCCCTTTTTATAAATGGAGGGAAAAAATGA
ACAGATTCAGAGATTAAATGAAAAAAGCAGATGTGTTTAAAGTGCAATTAACACTGAAAGAGACCTGTAAAC
CATTCAGAAAAAGCTTAAGAAATGCGATATGACTTCCTTTTGTAAATGCTGCTGATCCCAGTAGACTATGACTTTT
GATAATTAGCAGAATTTAACTACTGAGTAGTTGATTATTTTCACATTTTAATTGCTAATCACTGGCTATATAAGT
GTTTTTAAGCAAGGGTATTTTTGAAGTGGTGTAGAACCCTTCCACGCTTTCCTGCTCAGTGTTCTACCAGACAAG
AAAAGGGACTTGGGGAAGGAACTTATTGGAACTTGATGCGAATTAGGTTCTTCTTTCACAAACTCTGCCTGC
TTGCTCTCCCTTGCTGATGGGTGCAATTCTCAAATATTCATGCTAGCAATTTTCCACGGGGGGGCTTTTTC
CCACGGGGGCTCTATAGGGGCCATTTCTCCGGTAAATAGGAATTTCCCCTTTAAGGGGTGCCAGTAGTAGGAG
TATAGGGAACCTCTCAGCTGTGGCACTGTTGTAGCTTTGGAGTCAGAGTGACTCTGGGCAATCAGATTTCCACA
TATTCTGCATCTTGATAAGCATTAAAAGTTGGGATACTAATTTGGATAAAAAAATGCACTAGGCAAACTCCAGC
GAGACAGAAAAGTATAGGGAAACCTCTCAGCTGTGGCACTGTTGTAGCTTTGGAGTGCAAGTGTAACTCTGGCGA
CAATCAGATTTACATATTCTGTCTCTTGGCATAAGCCATTAAAAGCTTGGAGATTACTGTATTTGGCATTAAA
AAAAAATGTCACTTAGGTGAGCACTCCAGACGTAGCACAGAAAAACCTTTGACACAAACCATGTGTTCTGATT
TTTGGTTTCA

1663/2825
FIGURE 1478

MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQRYEVAVRKS AIMVKKMR
EFGIADPDEIMWFKKLHLVNFVEPVGLNYSMFIP TLLNQGTAEKĒKWLLSSKGLQIIIGTYAQTEMGHGTHLRGL
ETTATYDPETQEFILNSPTVTSIKWWPGGLGKTSNHAIVLAQLITKGKCYGLHAFIVPIREIGHTHKPLPGITVGD
IGPKFGYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLT YGTMVFVRSFLVGEAARALSKACTIA
IRYSAVRHQSEMKPGEPEPQILDFQTQQYKLFPLLATAYAFQFVGAYMKETYHRINEGIGQGDLSELPELHALTA
GLKAFTSWTANTGIEACRMACGGHGYSHCSGLPN IYVNF TPSCTFEGENTVMMLQTARFLMKSYDQVHSGKLVCG
MVSYLNDLPSQRIQPQQVAVWPTMVDINSPESLTEAYKLRAARLVEIAAKNLQKEVIHRKSKEVAWNLT SVDLVR
ASEAHCHYVVVKLFSEKLLKIQDKAIQAVLRSLCLLYSLYGISQNAGDFLQGSIMTEPQITQVNQRVKELLTLIR
SDAVALVDAFDFQDVTLGSVLGRYDGNVYENLFEWAKNSPLNKA EVHESYHKHLKSLQSKL

1664/2825
FIGURE 1479

GTGACGGGGAGGCGGTGCCCCGGGGCATCTCCGCGGCGGAACTCAGCCTGTGAGAAGTCACTGCTTTGGGGAGACC
TGATCTGGCTGTGCCAGATGGACACTGAGAAAGAAGTAGAAGACTCAGAATTAGAAGAGGAACATGGAGCTGATC
CAGGACACCTCCCGCCCCGCACTGGAGTACGTGAAGGGGGTCCCGCTCATCAAGTACTTTGCAGAGGCACTGGGG
CCCCTGCAAGCTTCCAAGCCGACCTGATGACCTGCTCATCAACACCTACCCCAAGTCTGGCACCACCTGGGTG
AGCCAGATACTGGACATGATCTACCAGGGCGGCGACCTAGAGAAGTGTAACCGGGCTCCCATCTACGTACGGGTG
CCCTTCCTTGAGGTCAATGATCCAGGGGAACCTCAGGGCTGGAGACTCTGAAAGACACACCGCCCCCACGGCTC
ATCAAGTCACACCTGCCCCCTGGCTCTGCTCCCTCAGACTCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCC
CGAAACCCAAAGGACGTGGCGGTCTCCTACTACCATTTCCACCGTATGGAAAAGGCGCACCTGAGCCTGGGACC
TGGGACAGCTTCCTGGAAAAGTTCATGGCTGGAGAAGTGTCCTACGGGTCTGGTACCAGCACGTGCAGGAGTGG
TGGGAGCTGAGCCGCACCCACCCTGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCAAAAGGGAGATT
CAAAAGATCCTGGAGTTTGTGGGGCGCTCCCTGCCAGAGGAGACCATGGACTTCATGGTTCAGCACACGTCGTTT
AAGGAGATGAAGAAGAACCCTATGACCAACTACACCACCGTCCCCCAGGAGCTCATGGACCACAGCATCTCCCCC
TTCATGAGGAAAGGCATGGCTGGGGACTGGAAGACCACCTTCACCGTGGCGCAGAATGAGCGCTTCGATGCGGAC
TATGCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGAGAGGGGCTCCTGGAGTCACTGCAG
AGGGAGTGTGCGAATCTACCCTGACCAATGGGCTCAAGAATAAAGTATGATTTTTTGTAGTCAGGCACAGTGGCTCA
TGTCTGCAATCCCAGCGATTTGGGAGGTTGAGCTGGTAGGATCACAATAGGCCACGAATTTGAGACCAGCCTGGT
AAAATAGTGAGACCTCATCTCTACAAAGATGTAAAAAAATTAGCCACATGTGCTGGCACTTACCTGTAGTCCCAG
CTACTTGGGAAGCAGAGGCTGGAGGATCATTTTCAGCCCAGGAGGTTGTGGATACAGTGAGTTATGACATGCCCAT
TCACTACAGCCTGGATGACAAGCAAGACCCTCCCTCCAAAGAAAATAAAGCTCAATTAAAAAT

1665/2825
FIGURE 1480

MELIQDTSRPPLEYVKGVP LIKYFAEALGPLQSFQARPDDLINTYPKSGTTWVSQILDMIYQGGDLEKCNRAPI
YVRVPFLEVNDPGEPSGLETLKDTPPPRLIKSHLPLALLPQTL LDQKVKV VYVARNP KDVAVSYYH FHRMEKAHP
EPGTWDSFLEKFMAGEVSYGSWYQH VQEWWELSRTHPVL YLFYEDMKENPKREIQKILEFVGRSLPEETMDFMVQ
HTSFKEMKKNPMTNYTTVPQELMDHSISP FMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

1666/2825
FIGURE 1481

GGGGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAG**ATGA**ATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGC
GGCGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCCTGTCCAGGACCTGGGCTCCACTGTTCAT
CAAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAAGATGTGTCTGAGGTTCATCTTTGGACATGTCTTGGCAGC
AGGCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATTCCTACTCTGTTCAGCATGGAGCTG
CCAGATGATCTGTGGGTCAAGCCTAAAAGCTGTGTGCCTTGCAGTCCAGTCAATAGGGATAGGAGACTCCAGCAT
TGTGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCAGTTGGCTTACTTGAGAACAGGAGTAAAGATAGG
TGAGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTCACAACTGTCATATGGGTATTAC
AGCTGAAAATGTAGCCACAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAG
GACAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAGATTGTACCAGTTTTGGTGTCAACTAGAAAAGGTCT
TATTGAAGTTAAAACAGATGAGTTTCCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTT
TCTTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTTGCTCT
TATGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCCTGGTCCCAAGTGGGTGT
GGAGCCTTCCATTATGGGAATAGGACCAATTCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGA
AGATGTTGACATATTTGAAATCAATGAAGCCTTGCAGCTGTCTCTGCTGCAATAGTTAAAGAACTTGGATTAAA
CCCAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTCGAATTCT
TGTGACCTGTTTACACACACTGGAGAGAATGGGCAGAAGTCGTGGTGTTCAGGCCCTGTGCATTGGGGGTGGGAT
GGGAATAGCAATGTGTGTTTCAAGAGAGAAT**TGA**CAATGTGTGTTTCAAGAGAGAATGAATTGCTTAACTTTGAACAAC
CTCAATTTCTTTTTTAACTAATAAAGTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAAC
CATTTCTTACATCACAAAACCCAAGTTTACAGCTTGTAATTTTAAATGTGTAATACTCAACTCACGGTACA
AGACAATTGCATTTAACATTGTTATAAATAAAAAGGAACATCAGATCAATCATTAATAAAAAAAAAA

1667/2825
FIGURE 1482

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASV
GAGIPYSVPAWSCQMICGSLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDG
LTDAFHNCHMGITAENVATKWQVSREDQDKVAVLSQNRTEAQAQAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHG
SNIEAMSKLKPYPFLTDGTGTVTPANASGINDGAAVAALMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPA
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLLHTLERMGR
SRGVAALCIGGGMGIAMCVQRE

1668/2825
FIGURE 1483A

CCGTTACGCGTTCGGTCTCTCTGGCTGACTCACCGCCCTCGCCGCCGCACC**ATGG**ACGCCCCCAGGCAGGTGG
TCAACTTTGGGCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGATACAAAAGGAATTATTAGACTACA
AAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGCCAAGATTATTAACAATACAGAGA
ATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAAGGTGATTTTTCTGCAAGGAGGTGGGTGCGGCCAGT
TCAGTGCTGTCCCCCTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCTGACTATGTGGTGACAGGAGCTTGGT
CAGCTAAGGCCGCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCACCCTAAACTTGGGAGTTATACAA
AAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTATTATTGCGCAAATGAGACGGTGC
ATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTGTGACATGTCTCAAACCTTCTGT
CCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAAGAATGTTGGCTCTGCTGGGGTCA
CCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCCTCGGTCTCTGGAATACAAGGTGC
AGGCTGGAACAGCTCCTTGTACAACACGCTCCATGTTTCAGCATCTACGTGATGGGCTTGGTTCTGGAGTGA
TTAAAAACAATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAATCTCAAACAATTTATGAGATTATTG
ATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAAGATGAATATTCCATTCCGCATTG
GCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTCTTGATAAAGCTCTTGAACCTCAATATGTTGTCCTTGA
AAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTGACAATTGAAGACGTTTCAAGCTGG
CCGCTTCATGAAAAAATTTTTGGAGATGCATCAGCTA**TGAA**CACATCCTAACAGGATATACTCTGTTCTTGAA
CAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAGTATTTTTCTCAAATGAACATGTT
TATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGT
CACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAAGAAATCTTGTGCTTTTCTAACAAATTCCCGCTATTTTG
CCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGTGGACTTAATAATGCAAGTTGCGATTAATTATT
TCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGCTGAATCTACACATCTGTGGGGTC
TCCTGGGTTTCAGTGGCTGTTGATTCAAGGTCAACATTGACCATTGGAGGAGTGGTTTAAAGAGTGCCAGGCGAAGG
GCAAACTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAAGTGACATACTTTATATATGTTTATATTAGCAAGG
TCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATAATACAGTTATCACTGATATATGT
AGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCATTAGCAAGAGTTGTACCCCTCC
CCAGTCTTCGCCTTCCTCTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGTTCTTGATTCATTTTTACCATTCT
TTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTTCAATTATGCCATTAAACTAAACATTTCTGTAA
TTACCCATATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGAGTGATACTTTGCTGAAAAGTCTT
TCCCCTATTGTTTATCTATTGTGAGTATTTTATGTTGAATATGTAAAGAACATTAAAGTCCTAAACACGGTCTA
AGCTAAGTGAAAGGGGAAGATCTGAGAGCGTGCTGTTTGTGGCTGTTGATGCATATTCTGTGATGTAACAGGTCTG
GGGCTCACTTTACCCCATTTGTAAAATGGGGCTAATGTCACCTGCCTCTTACCTACCTCAGAGGGATTGTTGTA
AGCAAACCTGTTAATCTTCGAAAACGACCATTTCACTTCTTGATATCAAGTGCTAACCCAGTATGTTCTTCTTTT
TTATGTAAGGGACAGCTTTCTCCACAGAGTCCTTTCTGCTGGTGAGGACAGCATTTCTGAGCAGGGCTTTGTTCT
CTATGTGCATTAGGACTTTTATCATGCCCTTGTTCTGTGTGTAGTTACTTGACAGCATCAAATGCCGCCTCTTCC
TAATGTCTTCAAGTTTTTCATGAACCTAGCAACCCACCTTCCACCATGGTTCTGGGCGCCTGATTTTGCTGTGAC
TCCCAGACCCAGCCACTGTTTCTGCCACCCTGTAAACAGGCCATTAAAGCTCCCAGTGTTCAGCCTCCTTCACTC
CCTTGTTTTCCCTGTTGCTATGTGTACCTGGGCCCTACAGACAGGGGCACACGCTTATGGATGTGTGTACCAT
GAGATGAGAATGGGTAGATGGAACGGAGACCATCAAGCCACACCCCTTCTTAAACTGGGGACATGAGCCTGAG
CAGAAAAGGTGAAGAAGAGCCATGGGACACAGAGTTGACCCAGCCAGGGGAAAGCCCAGCTCTCTTTAAACCAG
CTAAGCCATTCCAGTCTCCTGTGAAGCCAAAAGGGACCAGGAACCGTGCAAAGGAACTGGAAACTTTTCCCCGC
TGGGTAGAGCATGTTGCTGATACTCTTCTGTTTTCAAGGGAAAACAATCACATTGTTTGATTCCAAATGGTAAATG
AACACTCACTATTCTTCAGGCTTCAGTAAATCTTTTTTCTTCCCTTCATATATATATACACAACACACACACACA
TATGTATATCTATACACACATGTGTGTTGTGTATATGCATGTGTGTGTGTGCGTGTGTGTATAGTTTTAGCTCCA
AGCCAAGCAAGTTTGTGTTTGGATAGAGGGGAACCTTAACTATTAACCTACAAGTTGTATGTCTGTGGTATCTTGAT
TTTCCCATTCTTAAAGATGAATTTCAAAAGCCATAAAGCGTGAAATTAGAGCTGGACTTAAGACTCATTGGCCG
ACCATCCTGTGTCTTGGCCTGGCCCTGCAGTAAGAAGCGTGTCTGGGTCTGGAGAAGGGTGCTTCCGAGAGTGTG
CAGGTGGCCCTTCCCCTTGGAGGCGAGAAGAGAGAATGTGCTGTCTATCTTCCCTGGTTTTTCAGTCCACAGAGTCG
GTAGACCAGGGGTTACGTGACTGGGGAAAATCTCACATCTCCTTGCTGAAAACATTTCCCTGCTGTTCTCTTT

1669/2825
FIGURE 1483B

CTAACATGTTGTGGTAAATCTGTTTCAGATACTGCTCATCTGACTGTTTTGTACATGTGACAATTGCCTTAAACC
TAGCACAGTCCTCAGAAATGAATACCGTGTTTCCACTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1670/2825
FIGURE 1484

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRSVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

[illegible]

1672/2825
FIGURE 1486

MADNEKLDNQRLKNFKNKGRDLETMRQRNEVVVELRKNKRDEHLLKRRNVPHE
DICESDIDGDYRVQNTSLEA
IVQNASSDNQGIQLSAVQAARKLLSSDRNPPIDDLIKSGILPILVHCLERDDNPS
LQFEAAWALTNIASGTSEQT
QAVVQSNAPLFLRLLHSPHQNVCEQAVWALGNIIGDGPQCRDYVISLGVVKPLLS
FISPSIPITFLRNVTWVMV
NLCRHKDPPPPMETIQEILPALCVLIHHTDVNIIIVDTVWALSYLTDAGNEQIQM
VIDSGIVPHLVPLLSHQEVKV
QTAALRAVGNIVTGTDEQTQVVLNCDALSHFPALLTHPKEKINKEAVWFLSNITAG
NQVQVAVIDANLVPMIIH
LLDKGDFGTQKEAAWAISNLTISGRKDQVAYLIQQNVIPPFNCNLLTVKDAQVVQ
VVDGLSNILKMAEDEAETIG
NLIEECGGLKIEQLQNHENEDIYKLAYEIIDQFFSSDDIDEDPSLVPEAIQGGTF
GFNSSANVPTEGFQF

1673/2825
FIGURE 1487A

CTGGGTCCTGTGTGTGCCACAGGGGTGGGGTGTCCAGCGAGCGGTCTCCTCCTCCTGCTAGTGCTGCTGCGGCGT
CCCGCGGCTCCCCGAGTCGGGCGGGAGGGGAGAGCGGGTGTGGATTGTCTTGACGGTAATTGTTGCGTTTCCA
CGTCTCGGAGGCCTGCGCGCTGGGTTGCTCCTTCTTCGGGAGCGAGCTGTTCTCAGCGATCCCACTCCAGCCGG
GGCTCCCCACACACACTGGGCTGCGTGCGTGTGGAGTGGGACCCGCGCACACGCGTGTCTCTGGACAGCTACGGC
GCCGAAAGAACTAAAATTCCAGATGGCAAACCTCAATGAATGGCAGAAACCCTGGTGGTTCGAGGAGGAAATCCCCG
AAAAGTCTGAATTTTGGGTATTATTGATGCTATTTCAGGATGCAGTTGGACCCCTAAGCAAGCTGCCGCAGATCG
CAGGACCGTGGAGAAGACTTGGAAGCTCATGGACAAAGTGGTAAGACTGTGCCAAAATCCCAAACCTTCAGTTGAA
AAATAGCCCACCATATATACTTGATATTTTGCTGATACATATCAGCATTTACGACTTATATTGAGTAAATATGA
TGACAACCAGAACTTGCCCAACTCAGTGAGAATGAGTACTTTAAAATCTACATTGATAGCCTTATGAAAAAGTC
AAAACGGGCAATAAGACTCTTTAAAGAAGGCAAGGAGAGAATGTATGAAGAACAGTCACAGGACAGACGAAATCT
CACAAAACCTGTCCCTTATCTTCAGTCACATGCTGGCAGAAATCAAAGCAATCTTTCCCAATGGTCAATTCAGGG
AGATAACTTTTCGTATCACAAAAGCAGATGCTGCTGAATTCTGGAGAAAGTTTTTTGGAGACAAAACCTATCGTACC
ATGGAAAGTATTTCAGACAGTGCCTTCATGAGGTCCACCAGATTAGCTCTAGCCTGGAAGCAATGGCTCTAAAATC
AACAATTGATTTAACTTGCAATGATTACATTTTCAGTTTTTGAATTTGATATTTTTACCAGGCTGTTTCAGCCTTG
GGGCTCTATTTTGCAGGAATTGGAATTTCTTAGCTGTGACACATCCAGGTTACATGGCATTCTCACATATGATGA
AGTTAAAGCAGACTACAGAAATATAGCACCAAACCCGGAAGCTATATTTCCGGTTAAGTTGCACTCGATTGGG
ACAGTGGGCCATTGGCTATGTGACTGGGGATGGGAATATCTTACAGACCATACTCATAACAAGCCCTTATTTCA
AGCCCTGATTGATGGCAGCAGGGAAGGATTTTATCTTTATCCTGATGGGAGGAGTTATAATCCTGATTTAACTGG
ATTATGTGAACCTACACCTCATGACCATATAAAAAGTTACACAGGAACAATATGAATTATATTGTGAAATGGGCTC
CACTTTTCAGCTCTGTAAGATTTGTGCAGAGAATGACAAAGATGTCAAGATTGAGCCTTGTTGGGCATTTGATGTG
CACCTCTTGCTTACGGCATGGCAGGAGTCGGATGGTCAGGGCTGCCCTTCTGTGCTGTGAAATAAAAAGGAAC
TGAGCCCATAAATCGTGGACCCCTTTGATCCAAGAGATGAAGGCTCCAGGTGTTGCAGCATCATTGACCCCTTTGG
CATGCCGATGCTAGACTTGACGACGATGATGATCGTGAGGAGTCCTTGATGATGAATCGGTTGGCAAACGTCCG
AAAGTGCCTGACAGGCAGAACTCACCAGTCACATCACCAGGATCCTCTCCCCTTGCCAGAGAAGAAAGCCACA
GCCTGACCCACTCCAGATCCCACATCTAAGCCTGCCACCCGTGCCTCCTCGCCTGGATCTAATTTCAGAAAGGCAT
AGTTAGATCTCCCTGTGGCAGCCCAACAGGTTTACCAAAGTCTTCTCCTTGATGGTGAGAAAACAAGATAAACC
ACTCCCAGCACCACTCCTCCCTTAAGAGATCCTCCTCCACCGCCACCTGAAAGACCTCCACCAATCCCACCAGA
CAATAGACTGAGTAGACACATCCATCATGTGGAAGCGTGCCTTCCAGAGACCCGCCAATGCCTCTTGAAGCATG
GTGCCCTCGGGATGTGTTTGGGACTAATCAGCTTGTGGGATGTGACTCCTAGGGGAGGGCTCTCCAAAACCTGG
AATCACAGCGAGTTCAAATGTCAATGGAAGGCACAGTAGAGTGGGCTCTGACCCAGTGCTTATGCGGAAACACAG
ACGCCATGATTTGCCCTTTAGAAGGAGCTAAGGTCTTTTCCAATGGTCACCTTGGAAGTGAAGAATATGATGTTCC
TCCCCGGCTTTCTCCTCCTCCTCCAGTTACCACCCTCCTCCCTAGCATAAAGTGTACTGGTCCGTTAGCAAATTC
TCTTTCAGAGAAAACAAGAGACCCAGTAGAGGAAGATGATGATGAATACAAGATTCTTCATCCCACCCTGTTTC
CCTGAATTCACAACCATCTCATTGTCATAATGTAAAACCTCCTGTTTCGGTCTGTGATAATGGTCACTGTATGCT
GAATGGAACACATGGTCCATCTTCAGAGAAGAAATCAAACATCCCTGACTTAAGCATATATTTAAAGGGAGATGT
TTTTGATTTCAGCCTCTGATCCCGTGCCATTACCACCTGCCAGGCTCCAACTCGGGACAATCCAAAGCATGGTTC
TTCACCTAACAGGACGCCCTCTGATTATGATCTTCTCATCCCTCCATTAGGTGAAGATGCTTTTGATGCCCTCCC
TCCATCTCTCCCACCTCCCCACCTCCTGCAAGGCATAGTCTCATTGAACATTCAAACCTCCTGGCTCCAGTAG
CCGGCCATCCTCAGGACAGGATCTTTTTCTTCTTCTCCTTCAGATCCCTTTGTTGATCTAGCAAGTGGCCAAGTTCC
TTTGCTCCTGCTAGAAGGTTACCAGGTGAAAATGTCAAAACTAACAGAACATCACAGGACTATGATCAGCTTCC
TTCATGTTTCAGATGGTTCACAGGCACCAGCCAGACCCCTAAACCACGACCGCGCAGGACTGCACCAGAAATTCA
CCACAGAAAACCCCATGGGCCGTGAGGCGGCATTGGAATAATGTGATGCAAAAATTGCAAACTCATGGGAGAGGG
TTATGCCTTTGAAGAGGTGAAGAGAGCCTTAGAGATAGCCCAGAAATAATGTGCAAGTTGCCCGGAGCATCCTCCG
AGAATTTGCCTTCCCTCCTCCAGTATCCCCACGTCTAAATCTATAGCAGCCAGAACTGTAGACACCAAAATGGAA
AGCAATCGATGTATTCCAAGAGTGTGGAATAAAGAGAACTGAGATGGAATTCAGAGAGAAGTGTCTCCTCCTC
GTGTAGCAGCTTGAGAAGAGGCTTGGGAGTGCAGCTTCTCAAAGGAGACCGATGCTTGCTCAGGATGTCGACAGC
TGTGGCTTCTTGTGTTTTGCTAGCCATTTTTAAATCAGGGTTGAACTGACAAAAATAATTTAAAGACGTTTAC
TTCCCTTGAACCTTGAACCTGTGAAATGCTTTACCTTGTTTACAATTTGGCAAAGTTGCAGTTTGTCTTGTGTTT

1674/2825
FIGURE 1487B

TAGTTTAGTTTTGTTTTGGTGTGTTTGATACCTGTACTGTGTTCTTCACAGACCCTTTGTAGCGTGGTCAGGTCTG
CTGTAACATTTCCCACCAACTCTCTTGCTGTCCACATCAACAGCTAAATCATTTATTCATATGGATCTCTACCAT
CCCCATGCCTTGCCCAGGTCCAGTTCCATTTCTCTCATTACACAAGATGCTTTGAAGGTTCTGATTTTCAACTGAT
CAAACTAATGCAAAAAAAAAAAGTATGTATTCTTCACTACTGAGTTTCTTCTTTGGAAACCATCACTATTGAGAG
ATGGGAAAAACCTGAATGTATAAAGCATTTATTTGTCAATAAACTGCCTTTTGTAGGGGTTTTACATAAAAAA
AAAAAA

1675/2825
FIGURE 1488

MANSMNGRNPGGRGGNPRKGRILGIIDAIQDAVGPPKQAAADRRTVEKTKWKLMDKVVRLCQNPKLQLKNSPPYIL
DILPDTYQHLRLILSKYDDNQKLAQLSENEYFKIYIDSLMKKSKRAIRLFKEGKERMYEEQSQDRRNLTKLSLIF
SHMLAEIKAIFPNGQFQGDNFRIKADAAEFWRKFFGDKTIVPWKVFRQCLHEVHQISSSLEAMALKSTIDLTCN
DYISVFEFDIFTRLFQPWGSILRNWNFLAVTHPGYMAFLTYDEVKARLQKYSTKPGSYIFRLSCTRLGQWAIGYV
TGDGNILQTI PHNKPLFQALIDGSREGFYLYPDGRSYNPDLTGLCEPTPHDHIKVTQEYELYCEMGSTFQLCKI
CAENDKDVKIEPCGHLMCTSCLTAWQESDGQGCFFCRCEIKGTEPIIVDPFDPRDEGSRCCSIIDPFGMPLDLD
DDDDREESLMMNRLANVRKCTDRQNSPVTSPGSSPLAQRKPKQPDPLQIPHLSPFPVPRLDLIQKGI VRSPCGS
PTGSPKSSPCMV RKQDKPLPAPPPPLRDPPPPPPPERPPP IPPDNRLSRHIHHVESVPSRDPPMPLEAWCPRDVF
TNQLVGCRLLGEGSPKPGITASSNVNGRHSRVGSDPVL MRKHRRHDLPLEGAKVFSNGHLGSEEDVPPRLSPPP
PVTLLPSIKCTGPLANSLSEKTRDPVEEDDDEYKIPSSHVSLNSQPSHCHNVKPPVRSCDNHGM LNTHGPS
SEKKSNI PDLSIYLG DVFDSASDPVPLPPARPPTRDNPKHGSSLNRTPSDYDLLIPPLGEDAFDALPPSLPPP
PPARHSLIEHSKPPGSSSRPSSGQDLFLLPSDPFVDLASGQVPLPPARRLPGENVKTNRTSQDYDQLPSCSDGSQ
APARPPKPRPRRTAPEI HHRKPHGPEAALENVDAKIAKLMGEGYAFEEVKRALEIAQNNVEVAR SILREFAFPPP
VSPRLNL

1676/2825
FIGURE 1489

AATCCTCAGTCTGGTCTATATTGTTACTTGCCTGTXTCCTAGTAAGGAGTCACCCAGGCATTTAGTGAATGATA
ATCCTAGAAGTTGAGTCTGAGTACATCAGAGTTTGGCATTATTTGCAACATCCCAGGAATGAGCTATAAGACTCC
ATTGCTTTTCTGGACTTTAGTGACCAGCTGATCTTCCCTTGGATCCTCCAATAAAGGGGAAAAAATACTTGTCTTA
TGTGTGTTTAGCAAGGGAGTTTCAGCCAAGTGACAGGAAAAGATTCCCTGGTCTGCATCTAAACATTAGTCAACAGA
AGGAAAAGGCTCTTTTTCCTTGGAGATTTTCAAGTTGAAAAAGTACAGCTGCTTGGATGGAGTTTCTCTCATCAGA
ATAGAAATATGCTAGGTGGTCTTCAAGACCTTTTGAACCTACAGATTCTAAACCTTAGAGGAAGCCAGAATATG
TGATCATACCAGGTGAGGAAAGTTAGGAGATATTCATCTTAAGAGATATCCTATTTGGCAGTCACATGTTACACT
TGAGCAACAATTGTCTAGGCTAGAAATATAGAACCACACAATATTTATCATCATTGGGTCAATTTCTCCCCCTCT
ATCAAGTGAGGAGATTAAGGCTTAAAGAAAGGAAAGGACTTGCCAGCCACCACAGGGCTCATGAGGGGCTTGAAC
CCATGTCGTGTGTCTCTACCACAGCTGACTCTCAGCTGGCTAATGGAGAAAATGTGAGGAATTACCTGTCAAATT
AGATTGAGCTCAGAGTAAATAGATGAGCACATTTATAACTCTAAATTAGACTTTCTATCAAATGGGACCAAACAT
ATGGAAGGGGCTGCTGTCTGCCTCAATTTAGCCAAGACTTGTCTTGTCTCAAAGCCAAGACTCAGCAGTACATG
GATTCTGAGAAGTCCAGGGTCTGAATTGTTGTCTCTGATTACTGGAAGGACAGGTAACTGAATGTCTGTGATCA
CTAACAGGTGATGGGCTTTGTGCCCCTCCAGAGATATTGTGGGAGACAAATTCTTTTAACAGCCTGTCTCCCG
GCATCAGGAGTCATTGAACAATCATGGATTGTTGTGTTTGGGATTTTTTTTTTTTTTTTGGCTTTGTTTTTGGTTTT
TGTGTGTGTGTGTGTGTGTGCTGCATGCACATGCGTCCAAGACTTACGGGTGGTTTAGGGGAAAGTGCTAGCAACAG
TGTCAATGTCATTGTTAACTATATTTTCATATTTGAGGTCTCATTGTTTTCAAATAAACAGTGTTCATGAAAA
AAAAAAAAAAAAAAAAATTCTGCGCCGTCAAGG

1677/2825
FIGURE 1490

MGFVPTPEILWETNSFNSLSRHRQESLNNHGLLCLGFFFFLALFLVFVCVCCMHMRPRLTGGLGESASNSVNV
IVNYISYLRSHCFQINSVFHEKKKKKNSCGRQ

1678/2825
FIGURE 1491

GTGGGAGGAGGCACCGGCCGCGCGGGAGGAGGTGCCGGCCGAGCACCGCAGACAGCGCCGGGAAGATGAGCA
CGGAAGGTGGTGGCCGTCGCTGCCAGGCACAAGTGTCCCGCCGCATCTCCTTCAGCGCGAGCCACCGATTGTACA
GTAAATTTCTAAGTGATGAAGAAACTTGAAACTGTTTGGGAAATGCAACAATCCAAATGGCCATGGGCACAATT
ATAAAGTTGTGGTGACAGTACATGGAGAGATTGACCCTGCTACGGGAATGGTTATGAATCTGGCTGATCTCAAAA
AATATATGGAGGAGGCGATTATGCAGCCCCTTGATCATAAGAATCTGGATATGGATGTGCCATACTTTGCAGATG
TGGTGAGCACGACTGAAAATGTAGCTGTTTATATCTGGGACAACCTCCAGAAAGTTCTTCCTGTAGGAGTTCTTT
ATAAAGTAAAAGTATACGAAACTGACAATAATATTGTGGTTTATAAAGGAGAATAGCTATTGGGGTTAGCATTGC
ACAAAGCCCAGTTTCTTTCTGTGTTTGAAAAAGATTTTGATCCCCTTGGAAATATTAAGAGGTCAACACGTGATTG
TTGTACGTACACATTGTGCTCTGGAGTGCCTATTTATTGAAATCATTGTAAGACCTGTTATAAATTTAAGTCTAT
TTAAACTAACTTGTAATATACATCCTGAAAATCATTTAGAGAGTCTTTTATTTATAAATTAAAAATCACTTCA
TTTTACAAAATGTTTTGGTGTGGGATTATTTGAAAGCAAAAGAAATCTAATTTGTTTTCTCCATTACCTCATT
TTAGTATTAATTTTTACTTGGTATAATATACATGGTTAAATGCTTATGTGACTTCGAGTAGGTGAATCTTAAAG
AAATAAAATTCAAGTGACCAC

1679/2825
FIGURE 1492

MSTEGGGRRCQAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNGHGHNYKVVVTVHGEIDPATGMVMNLAD
LKKYMEEAIMQPLDHKNLMDVPYFADVSTTENVAVYIWDNLQKVLPGVLYKVKVYETDNNIVVYKGE

FIGURE 1493

[illegible]

1681/2825
FIGURE 1494

MADQAPFDTDVNTLTFRVMEEGRKARGTGELTQLLSLCTAVKAISSAVRKAGIAHLYGIAGSTNVTGDQVKKLD
VLSNDLVMNMLKSSFATCVLVSEEDKHAIIVEPEKRGKYVVCFDPLDGSSNIDCLVSVGTIFGIYRKKSTDEPSE
KDALQPGRNLVAAGYALYGSATMLVLAMDCGVNCFMLDPAIGEFILVDKDVKIKKKGKIYSLNEGYARDFDPAVT
EYIQRKKFPPDNSAPYGARYVGSMVADVHRTLVIYGGIFLYPANKKSPNGKLRLLYECNPMAYVMEKAGGMATTGK
EAVLDVIPTDIHQRAPVILGSPDDVLEFLKVYEKHSAQ

1682/2825
FIGURE 1495

GGCACGAGGGAGCA**ATGG**AGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCTTGTACC
TGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCACTGTGA
TATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCCTCCGGGA
AACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAATTCAAGTTCTACCCACCTGGGTGCAGGCTGACCT
GTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGTTTGAGC
GCTTTGTGGTAGCTGCCGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCACCCTGG
TGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGGCTTTCT
ATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCTGGATCCTGCCTGGC
ACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTAAGCTGA
AGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGAAA**TAGT**
GTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAAATGCTAAGTGGGA
GAAGAGAAACCTTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGTGTGGTTTTTTTTTTTTTTTTTGGCGGGAAGAA
AGAGTTTTGCTCTTGTGGCCAGGCTGGAGTGCAATGGCGTGGTCTCCGCTCACTGCAACCTCCACCTCGCGGGT
TTAGGCGATTCTTCTGCCTCAGCCTCCCTAGTAGCTGGGATTACAGGTGCCACCAACCATGCCAGCTAATTTGT
ATTTTTAGTTGAGACAGGGTTTCACTACGTTGGCCAGGCTGGTCTTGAACCTCTGATCTCAGGCAATCCACCCAC
CTCAGCCTCCCAAAGTGCTGGGATGACAGGCGTGAGCAACCGCACCCAGCTTAAGGTTTTTTTTGTTTTGTTTTGA
GACGGAGTTTTCGCTCTTGTGGCCAGGCTGGAGTGCAATGCTGTGATCTCAGCTTACCACAACCTCCACCTCCC
GGGTTCAAGTGATTACCTGCCTCAGCCTCCTGAGTGGCTGGTATTACAGGCATGCGTCACCACGCCGGCTAATT
TTGTACTTTTAGTAGAGATGGTGTTCCTCCACGTTGGTCAGTCTGGTCTCAAATTCCTGACCTCAGGTGATCTGC
CTGCCTCGGCCTCCCAAAGTGCTGTGATTACAGACGTCAGCCACCATGCCTGGCCTGAAAACCTTTTTTAGGTAAA
GTTGAATTCCATCCTTAAAAGTTTCTGTTATATCCTATTTAGCCATTTTCTATTGTCTCCCAAAGAATTCACATC
AAAAAACAGCTTTGAACTCCCCCTTCAAAGGAAACAGTCGACTTTCATAATTAGCATCTACCATTTATCCCCAAA
TCTTATTTTATTCACTTGAATTTTTTCCAATTGCTTTTTTTTTTTTTTTTTTTAAGGTTAAGAGCAGAGG
TTTACTAGGCCAAAGAAAGAGAATAGCTCTCTGTTGCAGAGAGGGGTCCTGGAGAAATGGGTTACCCAGTTGTC
TTATTTAAATGTTTACCATCAGATTTTAATTTTATCTTCTTTGAGAGCTTGGTAATAAGAAGCACTTAAATC
ACTCCAAAGAAGACTTTTAAAAGGGAGCAGTGAAAAGGTCTTAATAATTTATTGATTGAATTAAGAAATACTAGC
TAATTAAGAATCTGAGTCTAAACAGCACAGATTTTTCTTTCTGCTTTTAAATTGTGTTTTAAAAAAGAGACAG
GGGGCTGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTAGGA
GTTAAAGACCAGCCTGGCCAACATGGCAAAACCTACTAAAGATACAAAAAAAAAAAAAAAAATTGGCCAGGCGTGG
TGGTGGGTGCCTGTAATCCAGGTACTTGGAAGGCTGAGGCAGGAGAATCTCTTGAACCCAGAAGGCGAAGGTTG
CAGTGAACCGAGATCATGCCATTGTACTCTAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1683/2825
FIGURE 1496

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVCTLVLC SV
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGYAVK

1684/2825
FIGURE 1497

AAGCTTGCACGAGGCCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTGTTGCTCTTGTCCCTTCGGCAG
CGTGGCCGCTAGTCATATCGAGGATCAAGCAGAACAAATTCTTTAGAAGTGGCCATACAAACAACCTGGGCTGTTCT
GGTGTGTACATCCCGATTCTGGTTTAAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAG
GCTAGGTATTCCCTGACAGTCACATTGTCCTAATGCTTGACAGATGATATGGCCTGTAATCCTAGAAAATCCCAAACC
AGCTACAGTGTTTTAGTCCACAAGAATATGGAACATAAATGTGTATGGAGATGATGTGGAAGTGGATTATAGAAGTTA
TGAGGTAACGTGTGGAGAATTTTTTACGGGTATTAACTGGGAGGATCCCACCTAGTACTCCTCGGTCAAAACGTCT
TCTTTCTGATGACAGAAGCAATATTCTAATTTATATGACAGGGCATGGTGGAAATGGTTTCTTAAAATTTCAAGA
TTCTGAAGAAATTACCAACATAGAACTCGCGGATGCTTTTGAACAAATGTGGCAGAAAAGACGCTACAATGAGCT
ACTGTTTATTATTGATACTTGCCAAGGAGCATCCATGTATGAACGATTTTATTCTCCTAACATAATGGCTCTAGC
TAGTAGTCAAGTGGGAGAAGATTCACCTCTCGCATCAACCTGATCCTGCAATTGGAGTCCATCTTATGGATAGATA
CACATTTTATGTCTTGGAATTTTTGGAAGAAATTAACCCAGCTAGCCAACTAATATGAATGACCTTTTTTCAGGT
ATGTCCCAAAAGTCTGTGTGTGTCTACTCCTGGACATCGCACTGATCTTTTTTCAGAGGGATCCTAAAAATGTACT
GATAACTGATTTCTTTGGAAGTGTACGGAAAGTGGAAATTACAACAGAGACTATTAAATTGCAACAGGATTTCAGA
AATCATGGAAAGCAGCTATAAGGAAGACCAGATGGATGAGAACTAATGGAACCTCTGAAATATGCTGAACAACCT
TCCTGTAGCTCAGATAATACACCAGAAACCGAAGCTGAAAGACTGGCATCCTCCTGGGGGCTTTATTCTGGGATT
ATGGGCACCTTATTATCATGGTTTTCTTCAAACTTATGGAATTAAGCATATGAAGTTTCATTTTTTAGACTTGATG
ATGAATGAAGAATGCATGGAGGACTGCAAACTTGGATAATAATTTATGTCATTATATATTTTTAAAAATGTGTTT
CTCTTGATGAATTGGAAATAAGTATAAGGAACTAAATTTGAATCAACTATTAATTTTATAACTTAAAGAAAAA
TAATTGTTAATGCAACTGCTTAATGGCACTAAATATATTCCAGTTTTGTATTTTGTGTATTATAAAAGCGAATGA
GACAGAGATCAGAATACATTGACTGTTTTTGAAAAATAGTAATTTCCCCTTATCCCCTTTTCATTTGGAAAAGAAA
CAATTGTGAAGACATTAAATTCTCACTAACAGAA

1685/2825
FIGURE 1498

SLHEADSLSRAATV LATV LLLSFGSVAASHIEDQAEQFFRSGHTNNWAVLVCTSRFWFNYRHVANTLSVYRSVKR
LGIPDSHIVLMLADDMACNPRNPKPATVFSHKNMELNVYGDDVEVDYRSYEVTVENFLRVLTGRIPPSTPRSKRL
LSDDRSNILIYMTGHGGNGFLKFQDSEEITNIELADAFEQMWQKRRYNELLFIIDTCQGASMYERFYSPNIMALA
SSQVGEDSLSHQPDPAIGVHLM DRYTFYVLEFLEEINPASQTNMNDLFQVCPKSLCVSTPGHRTDLFQRDPKNVL
ITDFFGSVRKVEITTTETIKLQQDSEIMESSYKEDQMDEKLMEPLKYAEQLPVAQIIHQKPKLKDWHPPGGFILGL
WALIIMVFFKTYGIKHKMFIF

1686/2825
FIGURE 1499A

CCTGGGTCTCTCGGGCCAGAGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGGCCCTCGGGCCGGGGCGCCCACT
CCGCAGCAGCCAGCGAGCCAGCTGCCCCGTATGACCGCGCCGGGGCGCCGCCGGGCGCTGCCCTCCCACGACATGG
CTGGGCTCCCTGCTGTTGTTGGTCTGTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAGTACTGTAGC
CACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAGACCTCGTGCCAAATT
ACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGATCCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAA
GACATAATGGAGGACACCATGCGCTTCAGAGATAACACCGCCAATCCCATCGCCATTGTGCAGCTGCAGGAACCTC
TCTTTGAGGCTGAAGAGCTGCTTCACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTTCTATGAG
ACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCCTTGACAAGGACTGGAAT
ATTTTCAGCAAGAACTGCAACAACAGCTTTGCTGAATGCTCCAGCCAAGATGTGGTGACCAAGCCTGATTGCAAC
TGCCTGTACCCCAAAGCCATCCCTAGCAGTGACCCGGCCTCTGTCTCCCTCATCAGCCCCTCGCCCCCTCCATG
GCCCCGTGTGGCTGGCTTGACCTGGGAGGACTCTGAGGGAAGTGAAGGAGCTCCCTCTTGCTGGTGAGCAGCC
CTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCACCTGCCAGAGCTTTGAGCCGCCAGAG
ACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCACCACAGCCTCGCCCCCTCTGTGCGGGCCCTTCAACCCGGG
ATGGAGGATATTCTTGACTCTGCAATGGGCACTAATTGGGTCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATT
CCCGTACCCCAAGGGACAGAGCTTTCCCCCTCCAGGCCAGGAGGGGGCAGCATGCAGACAGAGCCCGCCAGACCC
AGCAACTTCCTCTCAGCATCTTCTCCACTCCCTGCATCAGCAAAGGGCCAACAGCCGGCAGATGTAAGTGTACA
GCCTTGCCAGGGTGGGCCCCGTGATGCCACTGGCCAGGACTGGAATCACACCCCCCAGAAGACAGACCATCCA
TCTGCCCTGCTCAGAGACCCCCCGAGCCAGGCTCTCCAGGATCTCATCACTGCGCCCCCAGGCCCTCAGCAAC
CCCTCCACCCTCTCTGCTCAGCCACAGCTTTCCAGAAGCCACTCCTCGGGCAGCGTGCTGCCCTTGGGGAGCTG
GAGGGCAGGAGGAGCACAGGGATCGGACGAGCCCCGAGAGCCAGAAGCAGCACACAGCAAGTGAAGGGGCAGCC
AGGCCCCGTGCCCGTTTTAACTCCGTTCCCTTGACTGACACAGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGC
CCGCAGCTCCAGGAGTCTGTCTTCCACCTGCTGGTGCCAGTGTCATCCTGGTCTTGCTGGCTGTGCGAGGCCTC
TTGTTCTACAGGTGGAGGCGGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGAGCAACCAGAGGGC
AGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTGGCAGTGTAGAGGGAATTCTAAGCTGGACGCACAGAACAG
TCTCTTCGTGGGAGGAGACATTATGGGGCGTCCACCACCACCCCTCCCTGGCCATCCTCCTGGAATGTGGTCTGC
CCTCCACCAGAGCTCCTGCCTGCCAGGACTGGACCAGAGCAGCCAGGCTGGGGCCCCCTCTGTCTCAACCCGAGA
CCCTTGACTGAATGAGAGAGGCCAGAGGATGCTCCCCATGCTGCCACTATTTATTGTAGCCCTGGAGGCTCCCA
TGTGCTTGAGGAAGGCTGGTGAGCCCGGCTCAGGACCCTCTTCCCTCAGGGGCTGCAGCCTCCTCTCACTCCCTT
CCATGCCGGAACCCAGGCCAGGGACCCACCGCCTGTGGTTTGTGGGAAAGCAGGGTGCACGCTGAGGAGTGAAA
CAACCCTGCACCCAGAGGGCCTGCCTGGTGCCAAGGTATCCAGCCTGGACAGGCATGGACCTGTCTCCAGACAG
AGGAGCCTGAAGTTCTGTGGGGCGGGACAGCCTCGGCCTGATTTCCCGTAAAGGTGTGCAGCCTGAGAGACGGGAA
GAGGAGCCTCTGCACCTGCTGGTCTGCACTGACAGCCTGAAGGGTCTACACCTCGGCTCACCTAAGTCCCTGT
GCTGGTTGCCAGGCCAGAGGGGAGGCCAGCCCTGCCCTCAGGACCTGCCTGACCTGCCAGTGATGCCAAGAGGG
GGATCAAGCACTGGCCTCTGCCCCCTCCTCCTTCCAGCACCTGCCAGAGCTTCTCCAGCAGGCCAAGCAGAGGCTC
CCCTCATGAAGGAAGCCATTGCACTGTGAACACTGTACCTGCCTGCTGAACAGCCTCCCCCGTCCATCCATGAG
CCAGCATCCGTCCGTCTCTCACTCTCCAGCCTCTCCCCAGCCTCCTGCACTGAGCTGGCCTCACCAGTGCAGTGA
GGGAGCCCCCTCAGCCCTGACCTTCTCCTGACCTGGCCTTTGACTCCCCGGAGTGGAGTGGGGTGGGAGAACCTCC
TGGGCCGCCAGCCAGAGCCGCTCTTTAGGCTGTGTTCTTCGCCAGGTTTCTGCATCTTCCACTTTGACATTCCC
AAGAGGGAAGGGACTAGTGGGAGAGAGCAAGGGAGGGGAGGGCACAGACAGAGAGCCTACAGGGCGAGCTCTGAC
TGAAGATGGGCCTTTGAAATATAGGTATGCACCTGAGGTTGGGGGAGGGTCTGCACTCCCCAAACCCAGCGCAGT
GTCTTTCCCTGCTGCCGACAGGAACCTGGGGCTGAGCAGGTTATCCCTGTGAGGAGCCCTGGACTGGGCTGCAT
CTCAGCCCCACCTGCATGGTATCCAGCTCCCATCCACTTCTCACCCCTTCTTTCCCTCCTGACCTTGCTCAGCAGTG
ATGACCTCCAACCTCTACCCACCCCCCTCTACCATCACCTCTAACCAGGCAAGCCAGGGTGGGAGAGCAATCAGGA
GAGCCAGGCCTCAGCTTCCAATGCCTGGAGGGCCTCCACTTTGTGGCCAGCCTGTGGTGCTGGCTCTGAGGCCTA
GGCAACGAGCGACAGGGCTGCCAGTTGCCCCCTGGGTTCCTTTGTGCTGCTGTGTGCCTCCTCTCCTGCCGCCCTT
TGTCTCCGCTAAGAGACCCTGCCCTACCTGGCCGCTGGGCCCGTGACTTTCCCTTCCCTGCCAGGAAAGTGAG
GGTCGGCTGGCCCCACCTTCCCTGTCTGATGCCGACAGCTTAGGGAAGGGCACTGAAGTTGCATATGGGGCTTA
GCCTTCTAGTCACAGCCTCTATATTTGATGCTAGAAAACACATATTTTTAAATGGAAGAAAAATAAAAAGGCATT

1687/2825
FIGURE 1499B

CCCCCTTCATCCCCCTACCTTAAACATATAATATTTTAAAGGTCAAAAAAGCAATCCAACCCACTGCAGAAGCTC
TTTTTGAGCACTTGGTGGCATCAGAGCAGGAGGAGCCCCAGAGCCACCTCTGGTGTCCCCCAGGCTACCTGCTCA
GGAACCCCTTCTGTTCTCTGAGAACTCAACAGAGGACATTGGCTCACGCACTGTGAGATTTTGTTTTTATACTTG
CAACTGGTGAATTATTTTTTATAAAGTCATTTAAATATCTATTTAAAGATAGGAAGCTGCTTATATATTTAATA
ATAAAAGAAGTGCACAAGCTGCCGTTGACGTAGCTCGAG

1688/2825
FIGURE 1500

MTAPGAAGRCPPTTWLGSLLLLVCLLASRSITEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQ
KDPVCYLKKAFLLVQDIMEDTMRFRDNTANPIAIVQLQELSLRLKSCFTKDYEEDKACVRTFFYETPLQLEKVK
NVFNETKNLLDKDWNIFSKNCNNSFAECSSQDVVTKPDCNCLYPKAIPSSDPASVSPHQPLAPSMAPVAGLTWED
SEGTEGSSLLPGEQPLHTVDPGSAKQRPPRSTCQSFEPPEPTPVVKDSTIGGSPQPRPSVGAFNPGMEDILDSAMG
TNWVPEEASGEASEIPVPQGTELSPSRPGGGSMQTEPARPSNFLSASSPLPASAKGQQPADVTATALPRVGPVMP
TGQDWNHTPQKTDHPSALLRDPPEPGSPRISSLRPQALSNPSTLSAQPOLSRSHSSGSVLPLGELEGRRSTRDRT
SPAEEPAAPASEGAARPLPRFNSVPLTDTGHERQSEGSSSPQLQESVFHLLVPSVILVLLAVGGLLFYRWRRRSH
QEPQRADSPLEQPEGSPLTQDDRQVELPV

1689/2825
FIGURE 1501A

GGCACGAGGCTGCGCCTCGGGGGTGGCGTCCAGGCTCGGAGCGCGGCACGGAGACGGCGGCAGCGCTGGACTAG
GTGGCAGGCCCTGCATC**ATG**GAAACTCTTTCTAATGCAAGTGGTACTTTTGCCATACGCCCTTTTAAAGATACTGT
GTCAAGATAACCCTTCGCACAACGTGTTCTGTTCTCCTGTGAGCATCTCCTCTGCCCTGGCCATGGTTCTCCTAG
GGGCAAAGGGAAACACCGCAACCCAGATGGCCCAGGCACCTGTCTTTAAACACAGAGGAAGACATTTCATCGGGCTT
TCCAGTCGCTTCTCACTGAAGTGAACAAGGCTGGCACACAGTACCTGCTGAGAACGGCCAACAGGCTCTTTGGAG
AGAAAACTTGTCTAGTTCCCTCTCAACGTTTAAGGAATCCTGTCTTCAATTCTACCATGCTGAGCTGAAGGAGCTTT
CCTTTATCAGAGCTGCAGAAGAGTCCAGGAAACACATCAACACCTGGGTCTCAAAAAAGACCGAAGGTAAAATTG
AAGAGTTGTTGCCGGGTAGCTCAATTGATGCAGAAACCAGGCTGGTTCTTGTCAATGCCATCTACTTCAAAGGAA
AGTGGAATGAACCGTTTGACGAAACATACACAAGGGAAATGCCCTTTAAAATAAACCAGGAGGAGCAAAGGCCAG
TGCAGATGATGTATCAGGAGGCCACGTTTAAGCTCGCCACGTGGGCGAGGTGCGCGCGCAGCTGCTGGAGCTGC
CCTACGCCAGGAAGGAGCTGAGCCTGCTGGTGTCTGCTGCCTGACGACGGCGTGGAGCTCAGCACGGTGGAAAAAA
GTCTCACTTTTGAGAACTCACAGCCTGGACCAAGCCAGACTGTATGAAGAGTACTGAGGTTGAAGTTCTCCTTC
CAAAATTTAACTACAAGAGGATTATGACATGGAATCTGTGCTTCGGCATTGGGAATTGTTGATGCCTTCCAAC
AGGGCAAGGCTGACTTGTGCGCAATGTGAGCGGAGAGAGACCTGTGTCTGTCCAAGTTCGTGCACAAGAGTTTGTG
TGGAGGTGAATGAAGAAGGCACCGAGGCAGCGGCAGCGTGCAGCTGCTTGTAGTTGCAGAGTGCTGCATGGAAT
CTGGCCCCAGGTTCTGTGCTGACCACCCTTTCTTTTCTTCATCAGGCACAACAGAGCCAACAGCATTCTGTTCT
GTGGCAGGTTCTCATCGCCA**TAA**AGGTTGCACTTACCGTGCACCTCGGCCATTTCCCTCTTCTGTGTCCCCAGAT
CCCCACTACAGCTCCAAGAGGATGGGCCTAGAAAGCCAAGTGCAAAGATGAGGGCAGATTCTTACCTGTCTGCC
CTCATGATTTGCCAGCATGAATTCATGATGCTCCACACTCGCTTATGCTACTTAATCAGAATCTTGAGAAAAATAG
ACCATAATGATTCCCTGTTGTATTAAAATTGCAGTCCAAATCCCATAGGATGGCAAGCAAAGTTCTTCTAGAATT
CCACATGCAATTCACCTCTGGCGACCCTGTGCTTTCTGACACTGCGAATACATTCTTAACCCGCTGCCTCAGTG
GTAATAAATGGTGCTAGATATTGCTACTATTTTATAGATTTCTGGTGCTTAGCCTTATAAAAAAGGTTGTAAAA
TGTACATTTATATTTTATCTTTTTTTTTTTTTTTTTTCTGAGACGCAGTCTGGCTCTCTGTGCGCCAGGCTGGAG
TGCAGTGGCTCGATCTCTGCTCACTGCAAGCTCCGCCCTCCCGGTTTACGCCATTCTCCTGCCTCAGCCTCCCGA
GTAGCTGGGACTACAGGCGCCCGCCACCACGCCCCGCTAATTTTTTGTATTTTGTAGTAGAGACGGGGTTTACCG
TGTTAGCCAGGATGGTGTGATCTCCTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAG
GCTTGAGCCACCGCGCCCGCTATATTTTATCTTTTATCTTTTCTTTGACATTTACCAATCACCAAGCATGCAC
CAAACACTGCTTTAGGCACTGGGGACACAAAGGGGACAGAGCCATCCTCCTTTGACACCTGGTCTTCAGTTCTGT
GCCCCACGTATATAGTTTTGACAATGACCAGGTTGGACTGTTAATGTCTTTCACTTACCACGTAATCCTCTTG
TAGGGATCACATCTTTCTTTATGATATTGTATTTCTCTACCTCTAACAGTAAAAATTCCATTCAACCCTTAAAGC
TCACTTCAAATCTTCTTTGAGAAGTTTTCTTTCTCGCAACCAGATGTACATATTTGAACCTCTCTTTGTACT
TGGAGGGCACTTCTTTCGTGGTAGTTCTTTTATTTTATTAATCTCTGTATCCTTAGATAGTCTCCAACAACCA
AAGGTTGGGACTCTGTCTTACATATCTGGGTGCCCCCTCATAGTGCAGTAATAAGTAAGTTGATTATATACGAGCT
ATGTAACCTATATTTTAAATGGTTGGATATCACTGAGTTTTTTTTTTTAAAGAATTTTTTATTGAGGTAAACTT
CACATAACATAAAATTAACATTTTAAAGTGAGAAGTTCACTGCCACTTAGTATTGTTAACAATGTTGCATAACC
ACCACCTTTATTTAAAGTTCCAAAAAAATGTTCTCCTCTAAAAGGAAACCCCATCCCATTAAGCAGATACTCTC
CATTCCTTCTCTCCTCCAGCCCCCAGCAACCACCAATCTGCTTTCTGTCTCTATGGTTTTATCTATTCTTGCTAT
TTTATATAAATCGAATTGTATGAGACCTTTTGTGTCTGGCTTCTTCACTTAGTACAAGTTTTTGAGATTTATTT
ACATAGTAGCATGTATCAACACTTCATTTTATGGCCAAATAAAATTTGATTATGTGTTTATAGACAATTTATT
TATCCACTCATTCATTGATGGACTTTGGGTTGTTTCTGACTTTTGGCTATTGGGAATAGTGCTGCTATGAATGTT
TGTGTACCTGTATTTGTTTGAATGCCTATTTTGCACTCTCTTGGGTATATATCTAGGAGTGGAAGTCTGGGTCA
TATGTTAATTCTATGTTTAGCTTTTTGAGGAACAGACAAACTGTTTTCCACAGCAGTTGAACCATTCCACATTCC
CACCAGCAATGTATGAGAATTCCAATTTCTGTCCACTTCCTCACCAACACTTATTATTTTCTTTTCTTTTTTT
AAAAAAATAAGTTATGGCCATCTTAGTGGGTGTGAAGTGGTATCTCATTTGTGTTTTTATTGCAATTTCTATG
TAATGAGCTAGAACTAAAGTACAACTAGATGGGACATCCAGTCCCTTTGATAGATAATGCTGAGTAAAAAATG
AGATGAAAGACATTTGTTTGTGTTTGTAGAACATGAGTGACAGTTGTGTTAAAGCTTTAGAGGAGGAATGAAAACA
AAGTGAAGTACACTTAGAAAAGGGCCAAGTGGACATCTTGGATGTCAAGTGCCTAGTTCAGTATCTTTTTTTTTT
TTTTTTTTTTTTTTGAGACAGTGCCTCACTCTGTACCCAGGCTGGAGTGTAGTGGCATGATCTGGGCTCACTGC

1690/2825
FIGURE 1501B

AACCTCCTCCTCCTGGATTCAAGCAATTCTCTTGCTTCAGCCTCCCAAGTAGCTGAGACTACAAGCACCCACCAC
CACACCCGGCTAATTTTGTATTTTTCAGTAGAGACGGGGTTTCGCCACATTGGCCGTGTTGGTCTTGAATCCTG
GCCTCAAGCAATCCGCCTACCTCAGCCTCCCAAAGTGCTAGGATTACAGGCATAAGCCACTGAGCCCAGCCCTAG
TTCAGTATCTTTTATGTAAATTATAAACATCTGCAACATTATGTATCATATGCAGATACTTATTGCATTTCTTTT
ATTAGTGGTGAAAGTGTTCTATGCATTTATTGGCTCTTGAATTCCTCATCTATGAATTGTCATTCACACACCTA
CTTTTCTGCTTCGTTTTTACATATGTCTTTGCCTATTAAAGATATTATCCCTCTGTTTTATATTTTCTCTCATT
TTGTATTGCCTTTTAAATTTTGTATGATGTTTCATTAATAAACAGTGTTTTGTTTTCTCTATAAAAAAAAAA
AAAAA

1691/2825
FIGURE 1502

METLSNASGTFAIRLLKILCQDNPSHNVFCSPVSISSALAMVLLGAKGNTATQMAQALSLNTEEDIHRAFQSLLT
EVNKAGTQYLLRTANRLFGEKTCQFLSTFKESCLQFYHAELKELSFIRAAEESRKHINTWVSKKTEGKIEELLPG
SSIDAETRLVLVNAIYFKGKWNEPFDETYTREMPFKINQEEQRPVQMMYQEATFKLAHVGEVRAQLLELPYARKE
LSLLVLLPDDGVELSTVEKSLTFEKLTAWTKPDCMKSTEVEVLLPKFKLQEDYDMESVLRHLGIVDAFQQGKADL
SAMSAERDLCLSKFVHKSFVEVNEEGTEAAAASSCFVVAECCMESGPRFCADHPFLFFIRHNRANSILFCGRFSS
P

1692/2825
FIGURE 1503A

GTAGCTGCTTTGCAGGTACATCATGTGACAGTGGAAATTATAGAAGATGTGAAGAAAAACAACACACTCCAACAC
TAAAAGCATGATGTAGCTGCTTTGCAGGTAAAAGAAGCAGCTACATC**ATG**CCTTTTAGTGTTGGAGTGTGTGTTGT
TTTCTGTGGCTCAGGGGTATTTTAGAATGGACTCTTCTGCAACCCAGTTTCACATAGAGACTCATGAGAACACAT
CAGGACTTTGGTCAATATGGTACCGCAACCATTGACCGTAGTGTTGATTAAATGATGTGTTTCTTTCCAAGG
AGACCAAGCACATGTTAAAGATTCTGAATTTCACTGGCCCTTTATTTCTACCTCCAGGCTGTTGGAATATATTTT
CTTTGAAACTTGCTGTTAAAGACATTGCCATAAATCTATTACCAATGTATTTTGGACTACAAACATAGGTGCCA
TTTTTGCAATACCTCTACAGATTTATTACAGCACCACCAAGGAAGGGAGTCTGGGTTTTGAAGTGATAGCACATT
GTGGCATGCATTATTTTCATGGGAAAATCAAAAGCAGGAAATCCTAATTGGAATGGGAGCCTTTCTCTGGATCAAT
CTACCTGGAATGTGGATTCTGAACTTGCAAATAAATTGTATGAAAGATGGAAGAAATATAAAATGGTGACGTCT
GCAAGAGGAATGTTTTGGGAACAACCTCGATTGCTCACTTGAAGAAATCCAAGGAGTCAGAGTCCTTTGTTTTCT
TTTTGCCTCGTTTGATCGCAGAGCCTGGCCTCATGTTAACTTCAGCGCAACTGCCCTTAGGAGCAGGATGATCA
AGTACTTTGTGGTGCAGAACCCGTCCTCTGGCCGGTCTCCTTGACGCTCCTGCCTCTCTCCTGTACCCTAAAC
CCGAAGCCCTAGTGCACCTGCTCCACAGATGGTTTGGCACTGATATGCAGATGATTAATTTACAACTGGTGAAT
TCCAGCTCACCGAAGCTTGCCCTTACCTGGGTACGCATTCTGAGGAATCCAGGTTTGGCATCCTCCACTTACATC
TGCAGCCTTTGGAAATGAAAAGGGTTGGCGTAGTTTTACACCTGCTGACTATGGAAAAGTTACCTCACTCATA
TAATCCGGAATAACTTGACTGTTATTGACATGATTGGCGTGAAGGATTTGGAGCAAGAGAGTTATTTAAAGTGG
GTGGAAGACTTCTGGTGCAGGAGGCTCACTCCGATTTAAGGTGCCGAGTCCACGCTGATGGACTGCCGTAGAC
AACTGAAAGACAGTAAGCAAATTTTATCTATTACAAAGAACTTTAAAGTTGAGAATATTGGACCTCTTCCTATAA
CTGTTTCGTCTCTGAAAATTAATGGGTATAACTGCCAAGGTTATGGATTGAGGTGCTGGATTGTCATCAGTTTT
CCCTGGACCCAAACACATCCCGCGATATCAGCATTGTGTTCACTCCAGACTTTACCTCCTCCTGGGTAATTCGGG
ACCTAAGTCTTGTAACCGCAGCGGACCTAGAATTTGCTTCACTCTCAATGTGACTCTCCCTCATCACCTGTTGC
CCTTGTGTGCAGACGTGGTTCCAGGACCCAGCTGGGAGGAGTCATTTTGGAGGCTCACGGTCTTCTTTGTGAGTT
TGTCCTGTTGGGTGTGATTTTAATAGCCTTCCAACAAGCACAGTACATTCTCATGGAATTCATGAAAACAAGAC
AGAGGCAAAATGCTAGCTCCTCTTACAGCAAAAACAATGGTCCTATGGATGTAATCAGCCCCCATTTCTTACAAAA
GCAATTGCAAGAACTTTCTCGATACATATGGCCCCCTCTGATAAAGGCAGGGGGAAGAAGTGCCTTCCAGTGAACA
CTCCCCAAAGCAGGATCCAGAATGCTGCAAGAGGAGCCAGCCACCTATGGTCATTCTCAGAAGAAGCACAAAT
GCTCAGTGTATTACAGTA AACACAAAACCAGCACAGCTGCGGCCAGCAGCACCAGCAGCTACTGAGGAAAAAC
AGACTTCACCCCTGGGCAGCTCACTGCCTGCTGCTAAAGAGGACATTTGCACTGATGCCATGCGTGAGAACTGGA
TCAGCCTCAGATATGCAAGTGGCATAAATGTCAACCTGCAGAAGAATTTAACCCTTCCAAAAAATTTACTGAATA
AAGAAGAAAACACACTGAAAAACACAATTGTTTTAGTAATCCTTCTTCAGAATGTAGTATGAAGGAGGGAATAC
AGACATGTATGTTTTCTAAGGAACTGACATTA AAATTCAGAGAACACAGCCGAGTTCAAGGAACGGGAGCTCT
GTCCACTGAAGACCTCCAAGAACTACCTGAAAACCATTTACCAAGAACTCACCTCAGTACCACCAGCCAGACT
TGCCAGAAATTTCCAGGAAAAATAATGGGAATAACCAGCAAGTACCTGTCAAGAATGAAGTAGATCATTGTGAAA
ATTTGAAGAAGGTGGACACAAAGCCTTCTTCAGAAAAGAAGATTCACAAAACATCTAGAGAAGACATGTTTTCTG
AGAAACAGGACATACCTTTCTGAGAGCAAGAAGATCCTTATAGGAAGAAAAAGCTTCAGGAGAAAAGAGAAGGAA
ATTTACAAAATTTAAATTGGAGTAAAAGTCGAACATGTAGAAAAGAACAAGAAAAGGGGTGTTGCTCCAGTCTCAA
GGCTCCTGAACAGAGTGATCTAAAGCTTGTGTGCAGTGACTTTGAGAGGTCTGAGCTGAGCAGTGACATCAATG
TAAGAAGCTGGTGTATACAGGAAAGCACTAGGGAGGTTTGTAAAGCAGATGCCGAAATTGCAAGCAGTTTACCTG
CTGCCCAGAGAGAGGCAGAAGGTTACTACCAGAAAGCCTGAGAAGAAATGTGTGGACAAGTTCTGCTCCGATTCCA
GCTCTGACTGTGGGAGCTCCTCTGGCAGCGTGCGTGCCAGCCGGGGCAGCTGGGGGAGCTGGAGCAGCACCAGCA
GCTCCGACGGGGATAAGAAGCCCATGGTGGACGCCCCAGCACTTCTGCGGGCCGGAGACAGTGTTTTACAAAATG
ATTTTCCTTCTGAAGCTCCCATCTCCTTGAATCTTTCTCATAACATCTGCAATCCCATGACCGTGAATAGTCTCC
CACAATACGCAGAGCCTTCTGTCCAGCCTTCTGCGGGGCCACAGGTGTTGAAGAAGATAAAGGTCTTTACT
CACCTGGAGACCTGTGGCCCACTCCGCCAGTGTGTGTGACAAGCAGCTTAAACTGCACCCTGGAGAACGGCGTGC
CTTGTGTGATTACAGGAGTCGGCCCCGGTTTCATAATAGTTTCATTGATTGGAGTGCAACATGCCAAGGCCAGTTTT
CCAGCGCATACTGTCCATTGGAATTGAACGATTACAATGCCTTTCCAGAAGAAAACATGAACTATGCCAATGGCT
TCCCCTGTCTGCAGATGTTTCAGACAGACTTTATTGATCACAACCTCTCAGTCTACCTGGAACACCCCAACCA
TGCTGTGCTGCTGGGGACATGCCAGTTTCATCAGCTCTCCGCCCTACCTCACAAGCACCCGAAGCTTGTCTCCAA

1693/2825
FIGURE 1503B

TGTCCTGGACTTTTTGGTTCCATCTGGGCCCCGCAAAGCGATGTGTATGAAAATTGCTGCCCCATCAACCCACCA
CGGAACATTCGACCCACATGGAAAACCAAGCGGTCGTGTGCAAGGAATACTACCCGGGGTTCAACCCGTTTCGCG
CCTATATGAACCTGGACATATGGACTACCACAGCGAATAGGAATGCAAATTTCCCACTGTCTAGAGACTCGAGTT
ACTGTGGGAATGTGTGA¹⁶⁹³AAAATAATTGGATTTTTAAACAATGTGAATAAAGAGGCTTGTGTTTTGAAAAAAAAAA
AAAAAA

1694/2825
FIGURE 1504

MLLVLECVLF SVAQGYFRMDSSATQFHIETHENTSGLWSIWYRNHFDRSVVLNDVFLSKETKHM LKIILNFTGPLF
LPPGCWNIFSLKLAVKDIAINLFTNVFLTTNIGAI FAIPLQIYSAPTKEGSLGF EVIAHCGMHYFMGKSKAGNPN
WNGSLSLDQSTWNVDSELANKLYERWK KYKNGDVCKRNVLTTRFAHLKKSKESES FVFFLPRLIAEPGLMLNFS
ATA LRSRMIKYFVVQNPSSWPVSLQLLPLSLYPKPEALVHLLHRWFGTDMQMINFTTGEFQLTEACPYLGTHSEE
SRFGILHLHLQPLEMKRVGVVFTPADYGKVTSLILIRNNLTVIDMIGVEGFGARELLKVGGRLPGAGGSLRFKVP
ESTLMDCRRQLKDSKQILSITKNFKVENIGPLPITVSSLKINGYNCQGYGFEVLDCHQFSLDPNTSRDISIVFTP
DFTSSWVIRDLSLVTAADLEFRFTLNVTLPHHLLPLCADVVPGPSWEESFWRLTVFFVSLSLLGVLIAF'QQAQY
ILMEFMKTRQRQNASSSSQQNNGPMDVISPHSYKSNCKNFD TYGPSDKGRGKNCLPVNTPQSRIQNAAKRSPAT
YGH SQKKHKCSVYYSKHKTSTAAASSTSTTTEEKQTSPLGSSLPAAKEDICTDAMRENWISLRYASGINVNLQKN
LTL PKNLLNKEENTLKN TIVFSNPSSECSMKEGIQTCMF PKETDIKTSENTA EFKERELCPLKTSKKLPENHLPR
NSPQYHQPDLP EISRKNNGNNQQVPVKNEVDHCENLKKVDTKPSSEKKIHKTSREDMFSEKQDIPFVEQEDPYRK
KKLQEKREGNLQNLNWSKSRCTCRKNKKRGVAPVSRPPEQSDLKLVCSDFERSELSSDINVRSWCIQESTREVCKA
DAEIASSLPAAQREAGYYQKPEKKCVDFKFCSDSSSDCGSSSGSVRASRGWSGWSSTSSSDGDKKPMVDAQHFL
PAGDSVSQNDFPSEAPISLNL SHNICNPM TVNSLPQYAEPSCPSLPAGPTGVEEDKGLYSPGDLWPTPPVCVTSS
LNCTLENGVPCV IQESAPVHNSFIDWSATCEGQFSSAYCPL ELNDYNAFPEENMNYANGFP CPADVQTD FIDHNS
QSTWNTPPNMPAAWG HASFISSPPYLTSTRSLSPMSG LFGSIWAPQSDVYENCCPINPTTEHSTHMENQAVVCKE
YYPGFNPF RAYMNLDIWTTTANRNANFPLSRDSSYCGNV

1695/2825
FIGURE 1505

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG
CAGGAACGACAAACTCAAAGTCCAGG**ATG**TTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACTCCA
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCCAC
CACAACCCCCTCAACCAAGCTGTTTACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCCTGCCTCTCCCTGCACTCATCCAGGAAGGAAGAA
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCCAGCCTCC
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCCTCAAGAGATGC
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAGATGTATCTGGTCAACTCCAAAAGGAGAC
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC
AGGTTCTCTCAAAAGAAAGATGACTCAACTTGTAACCTCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT
GTGCCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAAGA
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCGACCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTGATGATGAGGGTCCAAAAGGCAAGAA
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT
TTCAGAAAAATATTACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTCGGAATG
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAAGTGGAAACGGA
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC
AAGGGGGACAACCTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTACATCCCCCCTGTGGAAG
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATGTGAGTTCCTCCTCTTGAAGGCCTACTGTC
ATCCACAAAGCTCCTTTTTTACGGGCATCCCATTTAATATTGAGATTACGGTGAGCCCTTTCAGGAAGCAATGT
GGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAATGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGA
TGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAATTTG
AAAAAGATCTCAAAGACGTGCTCGGTTTTTCATGAAGCCAATGACGGCGGTTTTCTGGACTCTTCCT**TGA**CCCTGTT
CTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGTGAG
TCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTTATT
CTTCTTTTTTACCTTTAAAAGTCTATATCTA

1696/2825
FIGURE 1506

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPS
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSSLTSTVQVAS
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSSTPSDKKGKKRKRRCI WSTPKRRHKKKSLPRG
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKKEKD ICSSSKRRFQKNIHRRG
KPKSDTVDFHCSKLPVTCGEAKGILYKKMKKHGSSVKCIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEGRTL
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ
PQDQLKCEFLLLKAYCHPQSSFFTGIPFNIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFY
KASDFGQVGLDLEAEFEKDLKDV LGFHEANDGGFWTLP

1697/2825
FIGURE 1507A

GCCGGGCAGTGGGCAGGTATGGCTGAGGGCGTGTGAGCGCCGAGCGCTAAGGGCCGCCGCCACCATGCCAGGGGG
CGCAGGCGCCGCCAGGCTCTGCTTGCTGGCGTTTGCCCTGCAGCCCCCTCCGGCCGCGGGCGGGCGGGGAGCCTGG
ATGGACAAGAGGAAGTGAGGAAGGCAGCCCCAAGCTGCAGCATGAACTTATCATACCTCAGTGGAAGACTTCAGA
AAGCCCCGTGAGAGAAAAGCATCCACTCAAAGCTGAGCTCAGGGTAATGGCTGAGGGGGCGAGAAGTGTATCCTTGA
CCTGGAGAAGAATGAGCAACTTTTTTGCTCCTTCCTACACAGAAACCCATTATACTTCAAGTGGAACCCCTCAAAC
CACCACACGGAAATTGGAGGATCACTGCTTTTACCACGGCACGGTGAGGGAGACAGAAGTGTCCAGCGTCACGCT
CAGCACTTGCCGAGGAATTAGAGGACTGATTACGGTGAGCAGCAACCTCAGCTACGTCATCGAGCCCCCTCCCTGA
CAGCAAGGGCCAACACCTTATTTACAGATCTGAACATCTCAAGCCGCCCCCGGGAAGTGTGGGTTCGAGCACTC
CAAGCCCACCACCAGGGACTGGGCTCTTCAGTTTACACAACAGACCAAGAAGCGACCTCGCAGGATGAAAAGGGA
AGATTTAAACTCCATGAAGTATGTGGAGCTTTACCTCGTGGCTGATTATTTAGAGTTTCAGAAGAATCGACGAGA
CCAGGACGCCACCAAACACAAGCTCATAGAGATCGCCAACCTATGTTGATAAGTTTTACCGATCCTTGAACATCCG
GATTGCTCTCGTGGGCTTGGAAGTGTGGACCCACGGGAACATGTGTGAAGTTTCAGAGAATCCATATTCTACCCT
CTGGTCTTTCTCAGTTGGAGGCGCAAGCTGCTTGCCCAGAAGTACCATGACAACGCCCAATTAATCACGGGCAT
GTCTTCCACGGCACCCATCGGCCTGGCCCCCTCATGGCCATGTGCTCTGTGTACCAGTCTGGAGGAGTCAA
CATGGACCACTCCGAGAATGCCATTGGCGTGGCTGCCACCATGGCCACGAGATGGGCCACAACCTTTGGCATGAC
CCATGATTCTGCAGATTGCTGCTCGGCCAGTGCGGCTGATGGTGGGTGCATCATGGCAGCTGCCACTGGGCACCC
CTTTCCCAAAGTGTTCAATGGATGCAACAGGAGGGAGCTGGACAGGTATCTGCAGTCAGGTGGTGAATGTGTCT
CTCCAACATGCCAGACACCAGGATGTTGTATGGAGGCCGGAGGTGTGGGAACGGGTATCTGGAAGATGGGGAAGA
GTGTGACTGTGGAGAAGAAGAGGAATGTAAACAACCCCTGCTGCAATGCCTCTAATTGTACCCTGAGGCCGGGGGC
GGAGTGTGCTCACGGCTCCTGCTGCCACCAGTGTAAGCTGTTGGCTCCTGGGACCCTGTGCCGCGAGCAGGCCAG
GCAGTGTGACCTCCCGGAGTTCTGTACGGGCAAGTCTCCCCACTGCCCTACCAACTTCTACCAGATGGATGGTAC
CCCCGTGAGGGCGGCCAGGCCTACTGCTACAACGGCATGTGCCTCACCTACCAGGAGCAGTGCCAGCAGCTGTG
GGGACCCGGAGCCCGACCTGCCCCCTGACCTCTGCTTCGAGAAGGTGAATGTGGCAGGAGACACCTTTGGAAACTG
TGGAAAGGACATGAATGGTGAACACAGGAAGTGCAACATGAGAGATGCGAAGTGTGGGAAGATCCAGTGTGAGAG
CTCTGAGGCCCGGCCCTGGAGTCCAACGCGGTGCCCATTGACACCCTATCATCATGAATGGGAGGCAGATCCA
GTGCCGGGGCACCCACGTCTACCGAGGTCTGAGGAGGAGGGTGACATGCTGGACCCAGGGCTGGTGTGACTGG
AACCAAGTGTGGCTACAACCATATTTGCTTTGAGGGGCAGTGCGAGGAACACCTCCTTCTTTGAAACTGAAGGCTG
TGGGAAGAAGTGCAATGGCCATGGGGTCTGTAAACAACACCAGAACTGCCACTGCCTGCCGGGCTGGGCCCGCC
CTTCTGCAACACACCGGGCCACGGGGGCAGTATCGACAGTGGGCCTATGCCCCCTGAGAGTGTGGGTCTGTGGT
AGCTGGAGTGTGGTGGCCATCTTGGTGTGCGGGTCTCATGCTGATGTACTACTGCTGCAGACAGAAACA
ACTAGGCCAACTCAAGCCCTCAGCTCTCCCTTCCAAGCTGAGGCAACAGTTTCAAGTTGTCCCTTCAGGGTTTCTCA
GAACAGCGGGACTGGTTCATGCCAACCCTTCAAGCTGCAGACGCCCCAGGGCAAGCGAAAGGTGATCAACAC
TCCGGAATCCTGCGGAAGCCCTCCAGCCTCCTCCCCGGCCCCCTCCAGATTATCTGCGTGGTGGGTCCCCACC
TGCACCACTGCCAGCTCACCTGAGCAGGGCTGCTAGGAACTCCCCAGGGCCCGGGTCTCAAATAGAGAGGACGGA
GTCGTCCAGGAGGCCTCCTCCAAGCCGGCCAATTCCCCCGCACCAATTCATCGTTTCCCAGGACTTCTCCAG
GCCTCGGCCGCCCCAGAAGGCACTCCCGGCAACCCAGTGCCAGGCGCAGGAGCCTCCCCAGGCCAGGAGGTGC
ATCCCCACTGCGGCCCCCTGGTGTGCGCCCTCAGCAGTCCCGGCCTCTGGCAGCACTTGCCCCAAAGTTTCCAGA
ATACAGATCACAGAGGGCTGGAGGGATGATTAGCTCGAAAATCTAGACCTGTCCAAGGGGCTTCTCCCTTTCCCTT
GAGCTCTCTGGACACTGCAGAGGACCCATGACCATGGAACCCCTGAAGAAGCATGTCTGGCCGCTCTGAGCTCCT
CCCACCTCCTCCAGGAACCTCCACATCTCCAAAAATCTCCCTGTTGACTCAGTGCCTCCTCGGCTTCTTTGGAA
GCCCAGAGGGACTATGATCTGATGGCCTCTAGGTGTTGTTTTGTGCAATATACAGCCCCAGGTAGGGAGGGGAGA
GTATGAGGAGGGTGACTGGCAGCTTCTCCTCCAGACTCCTAGCCCCGAGGTGCTGATGGAGATGCTCAAGGCCAG
CAAGCCCCCTCAGGCCAGCACTTCGCTTGCAAGCCATCCATTCACTCCTGGGGTGCAGGGCACGCAAGAGAGCT
TCCCATTGCTTCTGCTCTCCTCAGAGGTCCCGGGCTGGATGGAGGTGGTACTTACCCACCCCTTTTAGCTTTTAG
GGATTAAGGAAGGGTCAAGCCAGCCACTGCTGTGGCCCTGCCAGGGCTTGGTTGAGGGAACGGCTTCTGGCTGT
ATGGCTGCATGTGACAAGCCACGTCCCCTCCACCTCTCCCCAAACCCCTGCATCCCTGTATTACACGGGTCAC
TCTGACTCAGACAGGTACTATTCTGAGGAGTGTAGACAGCAGGAGGAGCACCAGGGCTTGGGCTTCTCTGAGCC
GTGATGCCAAAGGTTGCGACTCCTGACTCTGGATAATTTTTAGTTGCTCTTTGTTTTCTCTGCCGCACTTTCCTG

1698/2825
FIGURE 1507B

GTGCCCCACGCTTTTCTCTCTTCCTTCCCCTCTCATTCTCCCTCTAATGTGTGGTGCTTTGGTGAGCAAACCCTC
AGCAGTCCCTGACCTTCGGGTGACCAGGTGCTTGTGACCTACAAGTCAGAGTCCACTCTCACAGTCGGCCACTGGA
TTTCCCCTCACTGGCTCTCAGGAGTGTGACCAGAGTAGACTCGGGGCATGGCCATTGGGGTCATATGTTTATTTTT
CATTGTGTTTTGTGACCTCAGCAGGGTGGGGGTCTTCCTCCTTACTCTAAGCTAAATCTAGGTGAGGTTTCCCCT
TAGGGAGCCCAGCTATTTACAAAGTACACACGAGGGAGCAGGCTGGTCAATTGACTTCGGGCTGGACCGTTGCCCT
CTGAGCAGAGAACAGACCCATTTTCTGGGAGCTGCCCAGATCAGTGGAGAAGGCAGCCAGCAGCAGCTGCACTG
GAACAGTCAGAGCAGGGAGCCTCTTCCTCAACCCAGCTTTTTGTCACTTCACTTCCTTTTGTCTCTCTCTGGTCA
CTGCCCTTACCTGACCCTCACAGAAAGAGAGCTCTGAGCAGGTGAGGGGTCTGCGGTGGCTCCTGTCTTCCCTG
CAGCAGGGAAGGAGGGCCGTGTGGTGCTTTGCTAGATAGGACGGTTTTTGCAAAGCACCTGGAGATGTTTGCTGG
GAGATAGACTCCCCTCCACAAAGGTGCTGGGTGGCTCTCCGGACAGGAGCTGGCCTGACTCTCACTCCTCTGAG
GCTTTCCTGGGGCCTCCTCCCATCCTGCCATGAGCAATTGTTTGCTCTTGAAAACCTCACTGCAAGGCTGAAGCT
GACTTCTGATTCAACACCCAGGGCCTCCTTATAGTTCTCTGCACACAATAGGTGCTTCTTGATGTTCTTGGGT
TTGGAATAAGTGGAATAACGGATGTACCCCTGGGGGAAAAGCCTGGGTGGGTTTAGAAAGATCTCAGGAAA
ATGAGTTTTCTTCCCTCAGGGTGGCTGTGATACAGGTTCCCCATGTCCTTGCCGTGGGTCACTCTGTGTGGG
TCATCCTTGCTGTGGAGATCCATTCCCACCTTTCTGTGGCCCCAACCTTTTATTTAAATGTGCTACCCCTCTGCC
TCAAGGCTTGGTTCTTGAAAGTAAAGGTGAAAACATCCCCTTTACCCCTCTGCAAAACAAACAAGCAACATCC
TCAAAACCCCAACCCCATGCCTCACAGAGCTTCTGTGGCTTCTCCAGCCTTTCTCCCTCACATCAGGAGGTAGAT
AGCTCTGAAATGACAGCGCCACAGCCATAGTGAAGTGCATGAGCCATCTGAACCTGCAGTCCACCCTCCCTGGAAC
CACACCAGAAAGAGACCTGGGTGTGCTTTTTCTTGCTTTTTGTGTTTTGTTTTATTATTTTCATATCACCTC
CATCCCATAAAGTTGTACTGTGAAGTGAAGATGGTGAAGTGTGTTTGAATTTGATAGACTTTTCGGCAACCAGTT
CTACTAATGCTTCACTCCTGGCTCTGTTTCAAGGGAAGCTGCCAGGAAGAAGACTGGCCATTATGCATCCCCTTTT
CTTTCCAGTGCCCAGTATGCTGTTTTTGGAGGTGTCAAATACAAATAAATCTGGGCTTAGGGAAGGAGAGACCTTA
TTCCAAAGCATGATTGCAGAAGGGGAAAGGGAATATTGCAAAAGGAGAGGAAGGGCCTTATGGGAATAGTGAA
AAGGCTCAGACCGACCGATGGCAAGATCTGCAAGCGTCTCAAAGCCCAGGCAGAAAAGGACTTTTCTTTTATTGG
AAGAAGTAAACATGGCTAGAAAGAACCACGTTCAAGGAATGACGTTGTGCCAGGGTTTTTTTTTTTTTTTTTTT
TTGTCTCCAGGGGAGGGGCTGTTTGCTGGCTCAGGCTGAGGATGGCCCAAAGTCCAGGGTCTGGTGGGGAGGAGG
GAAGCTTAAGTCAAGTTTGGGTTAGTGAGTTAGCAAGCTCTTTGTGCAGATGGGGATGTAGGTAAATCTTTTAA
AAGTGAAATTAACCTCCTGCCAATTTTACAACCCAAGAATTTTTTTTTTAAGGGCCTTGGAGCCATCTCTAAACA
AACCTCAAGGGATTTAGTGCCCTGTCTCCCTGTCTCTAGAAGCCTTAGCCTGGGCACCTGGCTCAATCTTGTAAC
TGCCTGCTAGCCATAGATTCTTTTACGCTTGCTGACTTCTCCCTATAAGAGTAAAGCCTTTTTCTGCCCCAGCT
CTGAGACACTTGCAGATCTTAAGGTCTGAGACTTGCTGATTTTCTGGTTGGAGTGTTTTTTTGTATTGCCATAGT
CCCTTCCCCCTGAAGCAATAGCCCCCTCCCCACCTCCTGCAATACGCCTTCCAATCTTTATTGGAAGTCTCTCCC
TGCTACTTCCCTAATTTATTCTTATTTGACAGAGGGTATGGAAGACTTGCAATTTGAAAACCTGGGGACCAGTTCC
AAAGTCAGTAATTGTGTTAACCACGTGTATAACAGCTCTGCTGGACACCCAAGAAAGCCATGGGAACACCAACTG
GAAAGGTCCCCTTCCCCAGGGGAGCCTGCGAAGGAGAGGTTCTGTAGAATCCAAGCCCACATTTCCAAAGTCACC
CCCAACGCGTCTCTCACACCGTCCACTGTGCGTTTGTATGTGCTGGGATCCAGGGCAATGTGAATTTTCTTTT
TATTTGGGAGATTGTTACGGAAAACAGATCTTCTCTCTCTTGTCACCTATTAATTGTTTACAATATTTGTAC
ATCTATGCAAAATACTTGAATGGGCCATGGTGCCTTTTTTTCCTTGTTAGTATTTAATTAATAAATGAATTGTTGT
CATTTGCAATGTTAAAAA

1699/2825
FIGURE 1508

MPGGAGAARLCLLAFALQPLRPRAAREPGWTRGSEEGSPKLQHELIIPQWKTSESPVREKHPLKAELRVMAEGRE
LILDLEKNEQLFAPSYTETHYTSSGNPQTTTRKLEDHCFYHGTVRETELSSVTLSCTCRGIRGLITVSSNLSYVIE
PLPDSKGQHLYRSEHLKPPPGNCGFEHSPKPTTRDWALQFTQQTKKRPRRMKREDLNSMKYVELYLVADYLEFQK
NRRDQDATKHKLIEIANYVDKFYRSLNIRIALVGLEVWTHGNMCEVSENPHYSTLWSFLSWRRKLLAQKYHDNAQL
ITGMSFHGTTIGLAPLMAMCSVYQSGGVNMDHSENAIGVAATMAHEMGNHFGMTHDSADCCSASAADGGCMAAA
TGHFPFKVFNGCNRRRELDRYLQSGGGMCLSNMPDTRMLYGGRRCNGYLEEDGEEDCGEEEECCNNPCCNASNCTL
RPGAECAGHSCCHQCKLLAPGTLCREQARQCDLPEFCTGKSPHCPTNFYQMDGTPCEGGQAYCYNGMCLTYQEQC
QQLWGPGARPAPDLCFEKVNAGDTFGNCGKDMNGEHRKCNMRDAKCGKIQCSSEARPLESNAVPIDTTIIMNG
RQIQCRGTHVYRGPEEEGDMLDPGLVMTGTGKCGYNHICFEGQCRNTSFFETEGCGKKCNHGVCNNNNQNCHCLPG
WAPFFCNTPGHGGSIDSGMPPEVSGPVVAGVLVAILVLAVLMLMYCCRQNNKLGQLKPSALPSKLRQQFSCPF
RVSQNSGTGHANPTFKLQTPQGKRKVINTPEILRKPSQPPPRPPPDYLRGGSPAPLPAHLRAARNSPGPGSQI
ERTESSRRPPPSRP IPPAPNCIVSQDFSRPRPPQKALPANVPVGRRLPRPGGASPLRPPGAGPQQSRPLAALAP
KFPEYRSQRAGGMISSKI

1700/2825
FIGURE 1509

AGAGCCGGCGCCGTCACCGCCCGCATTGCCGCTCCCAGTCCCGCGCTCGGCACGACATGAAATCCCCGACGAGG
TGCTACGCGAGGGCGAGTTGGAGAAGCGCAGCGACAGCCTCTTCCAGCTATGGAAGAAGAAGCGCGGGGTGCTCA
CCTCCGACCGCCTGAGCCTGTTCCCCGCCAGCCCCCGCGCGCGCCCCAAGGAGCTGCGCTTCCACTCCATCCTCA
AGGTGGACTGCGTGGAGCGCACGGGCAAGTACGTGTACTTCACCATCGTCACCACCGACCACAAGGAGATCGACT
TCCGCTGCGCGGGCGAGAGCTGCTGGAACGCGGCCATCGCGCTGGCGCTCATCGATTTCCAGAACCGCCGCGCCC
TGCAGGACTTTCGCAGCCGCCAGGAACGCACCGCACCCGCCGCACCCGCCGAGGACGCCGTGGCTGCCGCGGCCG
CCGCACCTCCGAGCCCTCGGAGCCCTCCAGGCCATCCCCGCAGCCAAACCCCGCACGCCATTGAGCCCCGCCGCG
GGCCATACGCTGGACGAGTCGGACCGAGGCTAGGACGTGGCCGGCGCTCTCCAGCCCTGCAGCAGAAGAACTTCC
CGTGC GCGCGGATCCTCGCTCCGTTGCACGGGCGCCTTAAGTTATTGGACTATCTAATATCTATGTATTTATTT
GCTGGTTCTTTGTAGTCACATATTTTATAGTCTTAATATCTTGTTTTTGCATCACTGTGCCCATTGCAAATAAAT
CACTTGGCCAGTTTGCTTTTCTACCATCCGGCTGTGGCTCAGTGAGACTCCTGCTGGGAGGGTGGAGGCCAGGA
ATGGGCGGGCAGGACACCCTCATCCAGTCCTGCGGGGCTGGTGTGAAAGGCGCTGGGAACCGGCTTTGAATGAAT
AAATGAATCGTGT

1701/2825
FIGURE 1510

MKSPDEVLRERGELEKRSDSLFQLWKKKRGVLTSDRLSLFPASPRARPKELRFHSILKVDCVERTGKYVYFTIVTT
DHKEIDFRFCAGESCWNAALALALIDFQNRRAIQDFRSRQERTAPAAPAEDAVAAAAAAPSEPSEPSRPSPPKPR
TP

1702/2825
FIGURE 1511

TGCTTAAAAAACACAACAGGATTTTCGAAGAAATCCTTTCTTAGAAAAACAAACAAAAAACCAAAACAAAAACGTA
CTTTCTCCCCACTAGTTTACACCACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACACAGGAAGACACAGCA
GGGAGAAGCCCTAGTGCCCTCTGCCGGCTGCCAGGACCTGGTATCGGCCCCACAGACCAAGTCCTCCACAGAGGGC
GAGCCAGGGTGGAGAAGAGCCAGCCAGTGAACCAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
CGGATGGACTATAGCTTTGATACACAGCCGAAGACCCTTGGGTTAGGATTTCTGACTGCATCAAAAACTTATTT
AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
CAGGGCCACCCAGATGGGACCCCAACAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
AGCAGCACTGTGAAGAAAGGTCTCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAAGGTTTGAGG
AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
CTAGGATCACACATCCGGGCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
TCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCCTCTGGGGAGGCAGCAAAACCTCTT
GGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTTGTCGCCCCAGCAGCCT
GAGCAAGTACTGTCTCGGGTCCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCCTCCCCCA
GGGCGGCAGCCCAATCAGAAAACCTTTCCCCCTGGCCCGGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
GAATCTCAAGGCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCAGTCTCTGT
GAGACGAAGCTACTTGACGAAAAGACCAGCAAACTCTATTCTATCAGCAGCCAAGTGTCATCGGCTGTATGAAA
TCCTTGCTGTGCCCTTCCATCTTCTATCTCCTGTGCCAGACTCCCTGCATCCCCAAGGCAGGGGCATCTCCAACA
TCATCATCCAACGAAGACTCAGCTGCAAAATGGTTCTGCTGAAACATCTGCCTTGACACGGGGTTCTCGCTCAAC
CTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATTAAAAAAACTCATCGAGGAGGTGAAGGTTCTG
GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTCACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAAACAAGTGATTACGGTTACAGAGTGTTTTCCAAATGGGCTGGCC
TCCCAGGAAGGGACTATTACAGAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
CATGATGCCTTGGCCATCCTCCGCCAAGCTCGAGAGCCCAGGCAAGCTGTGATTGTCAACAAGGAAGCTGACTCCA
GAGGCCATGCCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTCTGTAGAA
TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTCGGCAGGGCTGGGCTTCAGCCTGGAAGGA
GGGAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
GAGACAGTCCAGCCTGGAGATGAAATCTTGACGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCC
TGGAACATCATCAAGGCACTGCCTGATGGACCTGTCACGATTGTCATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
ACCACAGCTGCTGGAGACTCCTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
CTGCTGCCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTCTTAAATAAGGGCAGAGTCACACT
GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAAATG
GATTTATTAGAATTCCATATGACATTATGCCTGGCTTCGCAAAATGTTTCAAGTACTGTAAGTGTGTCATGATT
CACCCCCAAACAGTGACATTTATTTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
TGTCCCACTTGGCATCAGCTGGCGTCATGCAAGTCATGCAAGGCTGGGACCACCTGAGATCATTCACTCATAC
ATCTGGCCGTTGATGTTGGCTGGGAACCTACCTGGGGCTGCTGGCCTGAATGCTTATAGGTGGCCTCTCCTTG
GCCTGGGCTCCTCACAAATGGTGTCTGGATTCCCAGGATGAGCATCCAGGATCGCAAGAGCCACGTAGAAGCT
GCATCTTGTTTATACCTTTGCCTTGGAAGTTGCATGGCATCACCTCCACCATACTCCATCAGTTAGAGCTGACAC
AAACCTGCCTGGGTTTAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
ATTTGCAAAATTGTTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
ACAGGTGAAGCACCAAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAA
ATAAAATTGCTACTACTTACCTACC

1703/2825

FIGURE 1512

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHPDGTTPPKLDTANGTPKVYKSADS
STVKKGPPVAPKPAWFRQSLKGLRNRASEPRGLPDPALSTQPAPASREHLGSHIRASSSSSSIRQRISSEFETFGS
SQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLPVQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFPPGPDPLRLRLSTQAEESQGPVLKMPSQRARSFPLTRSQSCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVITILHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDASAASASDVSVES
TAEATVCTVTLEKMSAGLGFSLGEGKGS LHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGFPVTIVIRKSLQSKETTAAGDS

1704/2825
FIGURE 1513A

CCGGGGTCCCCTTTACCCAAAGTGAGCCAGCTCAGGCTGTCTGCAAAGCCGGAGGTGCGGGCAGCTCCGGGCATT
GCATTGGTGCAGGAGCTTTTATATGCCAGAGAACCTTGAGTGTGCCCTGACATGACAAGGAGCCGTCGTCGTTA
GGACTACCGACCAGACTCCCGGAAATCATGTTGGTAGGATCCCAGTCTTTTTTCGCCTGGAGGGCCCCAATGGGATC
ATTAGAAGCCAGTCCTTTGCGGGTTTCAGCGGCCTCCAGGAAAGGCGATCCAGGTGTAACCTCCTTCATTGAAAAT
TCCTCCGCTCTCAAGAAGCCTCAGGCCAAACTGAAGAAAATGCACAATTTAGGCCACAAAAACAACAATCCCCC
AAAGAGCCTCAGCCTAAAAGGGTGGAGAAGTCTACAGGGCCTTGAAAAATGGACTTGATGAATATCTGGAGGTT
CACCAGACGGAGCTGGACAAGTTGACAGCTCAGTTAAAAGATATGAAAAGAACTCTCGCCTGGGTGTACTGTAT
GACCTAGACAAGCAAATTTAAACAATTGAAAGATACATGAGACGCCTGGAGTTTCATATAAGTAAGGTAGATGAA
CTCTATGAAGCTTATTGTATCCAGCGACGCCTCCAGGATGGTGCCAGCAAAATGAAGCAAGCCTTCGCAACATCC
CCTGCCAGCAAAGCTGCCCCGGGAGAGTCTGACAGAGATCAATCGGAGCTTCAAGGAGTACACAGAGAATATGTGC
ACCATGAAAGTGGAGCTAGAGAATCTGCTGGGAGAATTCTCCATCAAGATGAAAGGTCTGGCTGGCTTTGCACGC
CTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTATGGCCGGCAGCGGTGGAACTGAAAGGCCAAAATAGAA
GTAAATGGCAAGCAGAGCTGGGATGGAGAAGAAACAGTTTTTCTGCCCTGATAGTTGGGTTCATCTCCATCAAG
GTCACGGAGCTCAAAGGGCTAGCAACTCACATCCTGGTAGGTAGCGTGACCTGTGAGACCAAAGAGCTGTTTGCA
GCCCCACCTCAGGTAGTGGCTGTGACATCAATGACCTTGGTACCATCAAACCTGAACCTGGAAATCACCTGGTAT
CCATTTGACATGGAGGACATGACCGCATCCTCAGGCGCTGGGAACAAGGCAGCAGCCCTTCAGAGGAGAATGTCC
ATGTACAGCCAGGGTACCCCGAAACGCCACCTTCAAAGACCCTCCTTCTTTAGGTGGCTGCATCCTTCCCCA
GACAAGCCCAGGCGGCTGTCTGTCTTGAGTGCCTTGCAAGACACTTTCTTTGCCAAGCTGCACCGCAGCCGCTCC
TTCAGTGACCTGCCCTCCCTCAGGCCGAGTCCCAAGGCCGTGCTAGAGCTCTATTCAAATCTACCTGATGACATC
TTTGAAAATGGAAAGGCAGCCGAGGAGAAAATGCCACTGTCGCTCAGCTTCAGTGACCTGCCCAACGGGGACTGC
GCCCTCACCTCCCCTCAACAGGCTCCCCCTTCCAACCTCAACAAATCCAGAAATTACCATCACCCCTGCGGAGTTT
AACCTCAGCAGCTTGGCCTCCAGAATGAGGGTATGGATGACACCAGCTCAGCATCTTCCAGGAACCTCCCTGGGA
GAAGGCCAAGAGCCAAAGTCACACCTGAAGGAGGAAGACCCAGAGGAGCCAGAAAACCTGCCTCGGCCCATCT
GAGGCTTGCCGCCGACAGTCCTCAGGTGCTGGGGCTGAGCACCTGTTCTTGAGAATGATGTTGCAGAAGCACTT
CTGCAAGAGTCTGAGGAGGCCTCTGAGCTCAAGCCTGTGGAACCTGGACACTTCGGAAGGAAACATCACAAAGCAG
CTGGTCAAGAGGCTCACATCTGCAGAGGTGCCAATGGCCACAGACAGGCTGCTCTCTGAGGGTTCTGTTGGTGGA
GAATCTGAAGGCTGCAGATCCTTTCTAGATGGAAGCTTAGAGGATGCTTTTAATGGGCTTTTACTTGCAATTAGAA
CCACATAAAGAGCAGTATAAAGAGTTTCAGGATCTGAACCAAGAAGTCATGAATTTGGATGATATTCTAAATGC
AAGCCAGCAGTAAGCCGACAGAGGTCTTCCAGTTTAAGTCTCACAGTTGAAAGTGCTTTAGAAAGCTTTGATTTT
CTGAACACCTCTGATTTTGACGAGGAGGAGGATGGTGATGAGGTTTGTAATGTTGGCGGAGGTGCTGACTCAGTA
TTTTCAGACACTGAGACTGAGAAACACAGTTACAGGTCGGTTTCAACCCAGAAGCCAGGGGGCATCTCAGTGAAGCG
CTCACTGAAGACACAGGAGTTGGGACAGTGTGGCAGGAAGTCCTCTCCACTGACCACAGGCAACGAGAGCCTG
GACATCACCATCGTCAGGCACCTCCAGTACTGCACCCAACTCGTGACAGCAAATTGTTTTCTCAAGCAAAACCCCA
TTTGTGGCAAGAAGTCTCTTAGAGAAGCTTTCTAGGCAGATCCAAGTGATGGAGAACTCGCAGCTGTGATGAT
GAGAACATAGGAAATATCAGTTCTGTTGTGGAAGCCATACCAGAATTTCAAAAAAGCTGTCTTTGCTGTCAATC
TGGACCAAGTGCTGCAGCCCTGTTGGTGTCTACCACAGCCCAGCGGACAGAGTGATGAAGCAGCTGGAGGCCAGC
TTTGCCAGAAGTGTCAACAAAGAATATCCAGGACTTGACAGCCAGTGTTCGAACCCTGGTGTCCCAAAATCTG
GACCAGGCTGAGCCTCTGCTTTCTCCTCAGCCTGTCTCGGAAGTCGTCAGTGTTTTCCAGTATTACAGTTACTTC
ACCAGCCACGGCGTCAGTGACCTGGAGAGTTACCTGAGCCAGCTGGCCAGGCAAGTTTCCATGGTTCAGACTCTG
CAATCACTAAGAGATGAAAACTGCTACAAACCATGAGTGACCTTGCTCCAGCAACCTCCTGGCCAGCAGGAA
GTACTCAGGACTCTGGCTCTGCTATTAACCAGAGAGGACAACGAAGTTAGCGAGGCTGTGACGCTTTACTTGGCA
GCAGCCTCCAAAAATCAGCATTTTCAGGGAAAAAGGCCTTGCTCTATTACTGTGAAGCACTAACAAGACAAACCTC
CAGCTCCAGAAAGCAGCTTGCCTGGCTCTGAAAATCCTTGAGGCTACTGAAAGCATTAAAAATGCTGGTGACATTG
TGTCATCTGATACTGAAGAAATCAGAAATGTGGCCTCAGAAACCCTCTTGTCTCTGGGAGAAGATGGGCGGCTG
GCATATGAACAATTGGACAAATTTCTCGAGACTGTGTTAAAGTCGGAGGTGTCATGGAAGTGAAGTTGCCACA
GCCTTTTAAATTACAGATTAAGTGCCTAACAGCTGTCTTAATATCTGGCCCTTTTCATCAGGATGGTGCTGTGTT
TGGGCTGGAAATGTTTAGAGCCTGAGAGACACGACAAGTGAATAAAAATGTAGGCCAGGTGCAGTGGCTCATG
CCTGTAATCCAGTACTTTGGGAGGCCAACGCAGGAGAATTGCTTAAGCCAGGAGGTTCAAGACCAACCTGGGC

1705/2825
FIGURE 1513B

AACATAGCAAGGCCCTGTCTCTACAAAAAATAGTTTAATTAGTCGGGCGTGGTGGCATGCACCTGTAGTCCCA
GCTACTTGGGAGGCTAAGGTGGGAGGATTGCTTGAGCCCAGAAGATTCAGGCTGCAGTGAGCCATAATTGCCCA
CTGCACTCCAGACTGGGTGACAGAGCAAAACCTGTCTCAAAAAACAAAACAACAACAACATAAAAAACATG
TTATAGAAAGAATTACAGAGTCTCGTTTCACAGTACCTATCTACTTTTCCTTTGGCCAATATAGAATAGGGCTATG
GTATAATTCAAATAGATTACATCGTCGATTGTGTCTAATAATACTCAGTGAAAGAGTCCATCTTATCTTAATATG
TATGAAATTTAAAAATAGCCATCTTTGTACTTTTTTGCAAGTTTCTCTATAAGCTTGAAATAGTCATGTGATACT
TCGACAAACATCATATGCCTTGCAGTTTTTCTCGGTCTGTCTCAGGGTTGAGTAGTCCCTTAGCTACCTAAC
TTACTTTCAATACAAAGCACAAAAAGAATACTTCAAATAAAAGTTTGCCTGCAGAACCTGGCAAAATGACCCA
TTATGAGAGTTTAGATGTTTTAATTTTATGTGCTCCAGCTACTCTGGAGTCTGAGGTGGGAGGATCACTTGAGG
CAGAGGTTGCAGTAAGCTGAGATTACACTACTGCCTCCAGCCCATGTGACAGAGGAATGAGAGCCAGTCTCAA
AAAAAAAACAAAAAATCCCATAATTTATTTTGTCTTTTCCCCATCCTGAAAATTCCTCAAATCATGTTTCCA
TTATGGAAAAATGATAAGTAAATGACTAAGAACTACATTAAGATTATGCCTATACACTTAAACAAAAAATCAA
GCTTATGCTTTTTTTTTTTAATTAATGAGAGCTATTTTTTATGATATTCTTACCATAGGGGTGTTTTGCTGCTAA
GACAAATCAAACCAAAGCTGTAGATTACAAACCTGTGATGCTCTTTGAGGTGGAGGAACCTAGAAGTCAGAG
AAATCCTAATGGAGTAGGAGTGGAGGAACATTTAAAGTGGTCCCTCCTTCTGTAAAAATGACCGTGGGATTAGAA
AGAAGGACATCCTGAGGGGTGGTTACTGCCCCCAGGGAAATCACTCACTGGTAGGATTCCCTGGCCAAATAGTTC
AAACATCAGGTCCATTATTGCTTCAGTATCAGAGATGCAAGTTCATTAAGCAAAGTACAAGACCATTCAGTAGC
TCTTATTAATAATATCTTTTCTTCTCTAAAGAGTGTAAGGTGGGGTATGCCAAGGTATCAAAACAATATATGT
GAGTGTAATTTAACTGTGGAATATCAACTGTACTATGGACGTGTTTGATCATTTAGATGTCATTTTAAATATT
TACATTTTAGCAAGACTTTTAAAAAGGACTCATTTTCAATTCAAAGTGCAAATTGTTTGCCAGGCTTCTGGCAAAT
GGTTCTTTCAACTGTGAACCTTATAGTGTAATATCTGTATATTTATAAATATTATATATATTCATACATCCTTCA
GTTTAAAGGTACATTGTACAGTCTGTAGTTAGGAGGTATAGCCTATAGCTTATGTTAAATGGTTGAAATGGTTCT
TTTTATAGAAAGTCAAACACAGATGTTACAGGATTTTGTGTTTGGTTTGTCATTTTTTTATTTTTATTTTGACT
ATTGCATGAGTAATTAATTCCAGATCTTTTGTATTCACTTCTGTATTTTATGTTTGGTTGAGGGGTGCTTTTAGT
TGTGTGGCATTGTATTCAATTGATCTTTCAGTCATGTAAGTTAAATAAAAATTATTTTTGAATTACTAGC

1706/2825
FIGURE 1514

MLVGSQSFSPGGPNGIIRSQSFAFSGLQERRSRCNSFIENSSALKKPQAKLKKMHNLGHKNNNPPKEPQPKRVE
EVYRALKNGLD EYLEVHQTELDKLT AQLKDMKRNSRLGVLYDLDKQIKTIERYMRRLEFHISKVDELYEAYCIQR
RLQDGASKMKQAFATSPASKAARES L TEINRSFKEYTENMCTIEVELENLLGEFSIKMKGLAGFARLCPGDQYEI
FMKYGRQRWKLKGKIEVNGKQSWDGEETVFLPLIVGFISIKVTELKGLATHILVGSVTCETKELFAARPQVVAVD
INDLGTIKLNLEITWYPFDMEDMTASSGAGNKAAALQRRMSMYSQGT PETPTFKDHSFFRWLHPSPDKPRRLSVL
SALQDTFFAKLHRSRFSFSDLP SLRPSPKAVLELYSNLPDDIFENGKAAEEKMPLSLSFSDLPNGDCALTSHSTGS
PSNSTNPEITITPAEFNLSSLASQNEGMDDTSSASSRNSLGEGQEPKSHLKEEDPEEPKRPASAPSEACRRQSSG
AGAEHLFLENDVAEALLQESEEASELKPVELDTSEGNITKQLVKRLTSAEVP MATDRLLSEGSVGGESEGC RSFL
DGSLEDAFNGLLLALEPHKEQYKEFQDLNQEV MNLDDILKCKPAVSRSRSSSLSLTVESALESFDFLNTSDFDEE
EDGDEV CNVGGGADSVFSDTETEKHSYRSVHPEARGHLSEALTEDTGVGTSVAGSPLPLTTGNESLDITIVRHLQ
YCTQLVQQIVFSSKTPPFVARSLLEKLSRQIQVMEKLA AVSDENIGNISSVVEAIPEFHKKLSLLSFWTKCCSPVG
VYHSPADRV MKQLEASFARTVNKEYPGLADPVFRTLVSQILDQAEPLLSSSLSEVVTVFQYYSYFTSHGVSDLE
SYLSQLARQVSMVQTLQSLRDEKLLQTMSDLAPSNLLAQQEVLR TLALLLTREDNEVSEAVTLYLAAASKNQHFR
EKALLYCEALT KTNLQ LQKAACLALKILEATESIKMLVTLCQSDTEEIRNVASETLLSLGEDGRLAYEQ LDKFP
RDCVKVGGRGHGT EVATAF

1707/2825

FIGURE 1515

AAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAA
CGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGAAAGCAGTGGTAACAACGCAGAGTACGCGGG
GCCAGCGGAAGTGGCTCCTGTAAAGGCAGCAAGGTAGCGTGGCCGGCGCCCGAGCTGGGGTTGTGTCCCTGCTGGG
CTGCCGTTCCAGCTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGA
GGCGGAGCATGTGGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCTGGC
CAAGTTCGAGGGGAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACAT
CCATGCCTTTGAACAGAAAACCCTGACCCCGAGCCAGTGGGCACGTGAGCGACAGAATGAGGGACTGGGATCTG
CACAGCCATTAAATTATAAATCTGGACG

1708/2825
FIGURE 1516

MELSAEYLREKLQDLEAEHVEVEDTTLNRCSCSFRVLVVS AKFEGKPLLQRHRLVNACIAEELPHIHAFEQKTL
TPDQWARERQK

1709/2825
FIGURE 1517

ATTGCTTTCTCTTTTCTTTCTTCCGGATGAGAGGCTAAGCCATAATAGAAAGAATGGAGAATTATTGATTGA
CCGTCTTTATTCTGTGGGCTCTGATTCTCCAATGGGAATACCAAGGGATGGTTTTCCATACTGGAACCCAAAGGT
AAAGACACTCAAGGACAGACATTTTTGGCAGAGCATAGATGAAAAATGGCAAGTTCCTGGCTTTCTTCTGCTCA
ACTTTCAATGTCTCCCTCCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTG
GGCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTCCCGACCATGAGTGCAGAGACCA
TGGAGCTGAAGTGGGTAAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAGGAAGTGGAAGACA
GGCAGAGTGCACCGTATCGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAA
TACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAAGCCC
TGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTAATCTTCACGTCGAAGTGAAGGGTTATGAGGATGGAGGGATCC
ATCTGGAGTGCAGGTCCACCGGCTGGTACCCCCAACCCCAAATACAGTGGAGCAACGCCAAGGGAGAGAACATCC
CAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCCTATATGAAGTAGCAGCATCTGTGATCATGAGAGGCG
GCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATTCCTCCTCGGCCTGGAAAAGACAGCCAGCATTTCATCG
CAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCCTGCCTATCTTGCTGCTGCTTC
TCGCCGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAAATAACTGCTCTGTCCAGTGAGATAGAAAGTGAGC
AAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGGAAATAAGCCTAAGAGAGAGCCTCCAGGAGGAACTCA
AGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGGAGTCTTCGTCCGATACCAATAAGTCAGCCTGATGCTCTAA
TGAAAAAATGGCCCTCTTCAAGCCTGGTGAGGAAATGCTTCAGATGAGGCTCCACCTTGTTAAATAAATTGGATG
TATGAAAAAATAGACTGCAGAAAAGGGAACTCATTTAGCTCACGAGTGGTCGAGTGAAGATTGAAAAATTAACCT
CTGAGGGCCAGCACAGCAGCTCATGCCTGTAATCCTAGCACTTTGGAAGGCTGAGGAGGGCGGATCACAAAGGTCA
GGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATAAAAAATTAGCCG
GGCATGGTGACGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGAAGGCA
GAGCTTGCAGTGAGCCGAGATCACGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAA
AAAAAAAAAAAAAAAAA

1710/2825
FIGURE 1518

MKMASSLAFLLLNFHVSLLLQLLTPCSAQFSVLGPSPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDYFYEKALVELKVAALGSNL
HVEVKGYEDGGIHLECRSTGWYPQPQIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIMRGGSGEGVSCIIRNS
LLGLEKTASISIADPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQQKEITALSSEIESEQEMKEMGYAATER
EISLRESLQEELKRKKSST

1711/2825
FIGURE 1519

GGCTCGAGTGCCTGGCGGGCTCTGGCTTCCGCGTCCGCCCTGCTCCGGCTTCGCCCCGAGCTCCGCGCCCCGCGG
GCAACCAAGCCCCCAGCGAAGCCCGCACAGCTCCGGGTGCCAGGACGGGGGGCCATGCCGTGCCGGAGGGAGGAG
GAAGAGGAAGCCGGCGAGGAGGCGGAGGGGGAGGAAGAGGAGGACGACAGCTTCCTCCTGCTGCAGCAGTCCGTG
ACGCTGGGCAGCTCGGGCGAGGTGGACCGGCTGGTGGCCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAG
GACAGCCCGGCTCGCCGTGCGCGCCCCCGGGGTGCCGTGCGGGCCCCGGGGCCCCCTGGCTGCGGCGGTGCCG
GCGGACAAGGCCCGGCCCCCGGCGGTGCCGTGCTGCTGCCGCCCGCTTCGGCTGAGACGGTGGGCCCCGGCGCCC
TCTGGGGCCCTGCGCTGCGCCCTAGGGGACCGCGGCCGCGTGC GCGGACGCGCTGCGCCCTACTGCGTGGCGGAG
GTCGCCCGCAGGCCCCAGCGCGCTGCCGGGGCCGTGCCGGCGAGGATGGCTCAGGGACGCGGTACCTCCCGCCGC
TTGCAGCAGCGCCGATGGACCCAAGCCGGGGCACGCGCCGGCGACGACGACCCGCATCGGCTCCTCCAGCAGCTC
GTGCTCTCGGGAACCTCATCAAGGAAGCCGTGCGGAGACTCCAACGAGCCGTGCGCGCGGTTCAGACCACGGGC
CCCGCAAGCGCCCCCTGGGCCCGGGGGAGGCCGACGCGGACCTGACCGCATTGCCCTGCAGCCCTCAGGCTCCTTG
CTCTGACGCAGGCCTCCTGGAGGAGGAAGTGGAGGCCGCTGCGTAGACCCAACAGCGTCCAGTTCCTACTAACTC
TGAGCTGAAGCCGACGTGCGCAGCCTGGGAGCGACCACCTTTGGCTGCGGGAGGCGCGTGGGGAGAGATCTCAAC
CAGAGAAGTTACCAGCCGCGGCGAGGCCGTGCGGAGAAAACCTTAAGCGTGGAGAAATGTATGCGCCAGGGTGCTTC
CGTGGGGCATGAGAATTTCCCGGGCCATCCAAGCCCAAGGACCTGGGATAAACTGGGAGAACTATGGCAGCTACT
TGCATCGACTTGTACCTCACTTAGCCCTTGGGGGCGTCGTGAGCTTGGATTGTTTAAGGAGGGCTCAGGGGTAGG
AATCGCGATGGCTTTATAACAATACTTGAAAACCTAACGACACGCATACATTTTCTTATTTTCTGGTGGAGGAGCT
TAGTAAGTGGTGCTACAATTGCTGTGCAAAGAAATTCAGAGGGGAGAAGAATGTAAAAGTTTGGTGGTGGGTGG
CTTGGCATTGCCCCTTTTTCCACCGATTCCGGTGGCTGGTGAAGGTGGGAGATGTGAACTCCAATTAAGGGACTG
GAGAGAGGTGAAGAATTTTGCAGGTGGGAGATTGGATTGTAATGTGGACTTGTAATGACTTGACCTTGCCATC
TGTGTTCAAGGTCACGGTTTGCTGTGGGGTTCCCTGGGAGAGCTTACTACCCCGGAGTCTTTTCTTTCTCTTGCT
CCAAGAAGAGCCCTGTTGGTGCTTTTACCACCGCTTGGAGTCTCCCGAGGACACAAACAGGCAGAGAGGGACGTGT
AGGGAGAGTTCTTTCTGTTTTCTGTGCTTTTCTTTTACAGGACTCCCGGAAGGCCACTCATGGCCATGCCAGG
AGCTTTCTCAGAAACAGTCATAAACGATCTCTTGAGTCTCTTTCTTGCTCTCCAGCTGAGCTTTCTTATTCAC
CCTTTCTGGTGTCTATAGGAATGCATGAGAGACCTGGACGTTTTTCTGCTCTCTTCTGGCCCTCCATGGAGCCA
TGGGCCTCGGCCTCGGCGGCTCCTCACCTCACAAATTTATTTCTCCTCCCGTGCCAGCCCTTCTTTTGTGTCTG
AAACCGGTTTTAAATGTGACTCTCCAGAGAAGAAGCCGCTGGCTGTATGAACTTGACGGCGCTTTTGTAAAGG
TGCCACCCCCAACTTTAAGGTAGCTAAACCAATTTTAAAGATTCAATGGCTTGTTTCATCCTCCAGATGTAGC
TATTGATGTACACTTCGCAACGGAGTGCTGAAATTGTGGTGGTCTGATTTATAGGATTTTCAT

1712/2825
FIGURE 1520

MPCRREEEEEAGEEEAEGEEEEEDDSFLLLQQSVTLGSSGEVDRLVAQIGETLQLDAAQDSPASPCAPPGVPLRAPG
PLAAAVPADKARPPAVPLLLPPASAETVGPAPSGALRCALGDRGRVRGRAAPYCVAEVAAGPSALPGPCRRGWLR
DAVTSRRLQQRRWTQAGARAGDDDPHRLQLVLSGNLIKEAVRRLQRAVAAVAATGPASAPGPGGGRSGPDRIA
LQPSGSLL

1713/2825
FIGURE 1521

GCAGAGCACAGCATCGTCGGGACCAGACTCGTCTCAGGCCAGTTGCAGCCTTCTCAGCCAAACGCCGACCAAGGA
AAACTCACTACC**ATG**AGAATTGCAGTGATTTGCTTTTGCCTCCTAGGCATCACCTGTGCCATACCAGTTAAACAG
GCTGATTCTGGAAGTTCTGAGGAAAAGCAGCTTTACAACAAATATCCAGATGCTGTGGCCACATGGCTAAACCTT
GACCCATCTCAGAAGCAGAATCTCCTAGCCCCACAGACCCTTCCAAGTAAGTCCAACGAAAGCCATGACCACATG
GATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGACTCGAACGACTCTGATGAT
GTAGATGACACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGATGAATCTGATGAACTGGTCACTGAT
TTTCCACGACCTGCCAGCAACCGAAGTTTTCACTCCAGTTGTCCCCACAGTAGACACATATGATGGCCGAGGT
GATAGTGTGGTTTATGGACTGAGGTCAAAATCTAAGAAGTTTCGCAGACCTGACATCCAGTACCCTGATGCTACA
GACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCCAGGAC
CTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCT
GAAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTG
ATTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCATGAAGATATGCTG
GTTGTAGACCCCAAAGTAAGGAAGAAGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCT
TCTGAGGTCAAT**TAA**AAGGAGAAAAAATACAATTTCTCACTTTGCATTTAGTCAAAAGAAAAAATGCTTTATAGC
AAAAATGAAAGAGAACATGAAATGCTTCTTCTCAGTTTATTGGTTGAATGTGTATCTATTTGAGTCTGGAAATAA
CTAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAACTAAAAGCTTCAGGGTTATGT
CTATGTTCACTTCTATAGAAGAAATGCAAACTATCACTGTATTTTAATATTTGTTATTCTCTCATGAATAGAAATT
TATGTAGAAGCAAACAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTTATGTCACTATAATCTTTTGT
TTTTTAAGTTAGTGTATATTTTGTGTGATTATCTTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAATAA
GAATTTGGTGGTGTCAATTGCTTATTTGTTTTCCACGGTTGTCCAGCAATTAATAAAACATAACCTTTTTTACT
GCCTAAAAAAAAAAAAAAAAAAAAA

1714/2825
FIGURE 1522

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLAPQTLP SKSNESH DHMDDMD
DEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDESHHSDESDELVTDFPTDLPATEVFTPVVPTVD TYDGRGDSVV
YGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETS QLDDQSAETHS
HKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELD SASSEVN

1715/2825
FIGURE 1523

CGCGAGTGAAGGAAGACGAATGCGTGACCCGACCGGCTGTGGTGTTCAGTCCCCACTGACCAGTAGGAGCAGCA
GGGCGTCGGCTTGTGAGGTGGCTTTTCCTCGGGGCAACCCAGGAAGGCCCAAGAGGACAATGGATTCTGGAACT
CGCCCAGTTGGTAGCTGCTGTAGCAGCCCCGCTGGGCTCTCACGGGAGTACAAACTAGTGATGCTGGGTGCTGGT
GGTGTAGGGAAGAGTGCCATGACCATGCAGTTCATCAGCCACCGATTCCCAGAAGATCATGATCCCACCATTGAA
GATGCTTATAAGATCAGGATCCGTATTGATGATGAGCCTGCCAATCTGGACATTTTGGATACAGCTGGACAGGCA
GAGTTTACAGCCATGCGGGACCAGTATATGAGGGCAGGAGAAGGGTTTATCATCTGTTACTCTATCACGGATCGT
CGAAGTTTCCATGAAGTTCGTGAGTTTAAACAGCTTATTTATCGAGTCCGACGTACTGACGATACACCTGTGGTT
CTTGTGGGAAACAAGTCAGACCTCAAACAGCTAAGACAGGTCACCAAGGAAGAAGGATTGGCCTTGGCCCGAGAA
TTCAGCTGTCCCTTTTTTGAGACATCTGCTGCATACCGCTACTATATTGATGATGTTTTCCATGCCCTTGTACGG
GAGATACGTAGGAAAGAAAAGGAGGCAGTACTGGCCATGGAGAAAAAATCTAAGCCAAAAACAGTGTATGGAAG
AGGCTAAAATCACCATTCCGGAAGAAGAAAGATTCAAGTAACTTGAAGAGAAGATGTGAAGTGTATCTGTGAAC
TGCAGTGCTGTATCAAAGCAGTCCAGTAACCTGCAGTACTGAGTATGGTGCTTGCTCTTTCACTTAACTGATAAG
AGGGACATGCCTACTAGGAGTTTTTAATGATGTGGTATTTAAAGTATTGTCTCTTAGTTAAGTATGATTTATTAA
CCCAGTGGAGCACTGTCTGCTTTTAAATTGTCACATTAGAATTTGTTCTACCAAAAAAAAAA

1716/2825
FIGURE 1524

MDSGTRPVGSCSSPAGLSREYKLVMLGAGGVGKSAMTMQFISHRFPEDHDPTIEDAYKIRIRIDDEPANLDILD
TAGQAEFTAMRDQYMRAGEGFIIICYSITDRRSFHEVREFKQLIYRVRTDDTPVVLVGNKSDLKQLRQVTKEEGL
ALAREFSCPPFFETSAAYRYYIDDVFHALVREIRRKEKEAVLAMEKKSKPKNSVWKRLKSPFRKKKDSVT

1717/2825
FIGURE 1525

ATTGCATTTTTATTACATACACATTGTTAATGTGGAACAATTTAACACTAATCTCATCAGAGAGCGAGATGAAT
GTGGCAATTGCTCATTTTTATTTTGCATATATTAAATTGAGTAGGTTTCAGCTCTAACATACCTTAAGAAAAATGCA
TATCGGTGCACTGTATGTATTTCAAATGCCTTTTCTATGATTGTCATGTCCTCCTTTAAGGCTTTTCCCTCAAA
TTTATTACAAATTTAGTATTTTAGTACTTGTATGACTCTAATTACATGAATGCACCTGGAATGACATTTGTAACA
GAAGACGGTCTGACTTGCTTTTCAGTATTACAAAGTTCTTTCCAGTTTCCAAGTCTTTTCTAGCAGTAATTTAGG
GGAGACAGAGGAGTTTCATGTAAAGAGCATGCAGTTTGGAGTCAGAACCTGGGTATGACTCTGTGGCCTTGATGA
AGCAAGTTACTTAAACTCTTGAGTTTGTAGCTTTCTCCTTTACAATGCATGAATGCCTATCCCCCTACAAAACAAA
GATTAAATGTGATGATGTATGCCAAGGTGCTTTGTATATTGTAAAGTGCTATATAATTATAAGATGTTCTAAATT
TTCAAGGATCTAAACCAGGGATTGGCAAACGTTTTTCCAGGGAGTAAATATTTTACGCTTTGCATATATAATTTA
TGGAGGTGTTGAGAGGATAGATTAGACACTTGAAGTACTCAGGATAGTGCCTGGCATGTAGGAAGCACCTGGAAA
ATATTCGCTGTGATTACCATCAGTCCATTTTACCGAGGAAGGAGCCAAGGTCCAGGCCCACTGAAGGACTTGCAT
AACATTACAATAGCAGTGGCAGAACCAGCCATGCTTCTGCAAATCACAACCTCTTTGAGCCTCTGTCACCTGAAC
TGCAAAATGAGTGGGTAGACAAAATCATCTGTTGGGACCTCCTAGTTCCACGTGCTATCATTCTACTAACTGGC
ACCCTAAGGTTGAAAGTGCTTATCTGCTTTCCAATGTGGCTTCCTTACAGTCTGGAAGTACAAATATGCAGGAGC
AGTAAACTGGCAGAAAACCAGGAATCAGAGAAAAGAAAATATAATTTAACTTTAAAGATGTAAATTATATATATAG
TATATTATATATATTTTTAAAGCTTTATATGCCTCAAATATCAGGGAAAGGAGCCAAGTCCTTGGTATTTAGTTT
GGTGAATACTTGCATTGAATACATGTCAAGATGTCAAGTCATTTTTGAATGTGTCTCAGGGATTTCTATGCTACA
CATTCTTTTAACAAATCAAGTATTTATGTACACATGTTTCAGATTTTTTGACAAAATGATTAAAAATAATGAGATGG
AAAAATGAAAAAAAATCTATGTCGGGTGCGGAGAAAAGAGGTAATGAAATG

1718/2825
FIGURE 1526

·MSGLDKIICWDLVPRAILLTGTLRLKVLICFPMWLPYSLELTICRSSKLAENQSEKENII

1719/2825
FIGURE 1527

TGCGACGTGACTGGCTAGCTGCGTGGGTACTGGAACAAGCAAACGAGGCAGCGAGCGAAGGACGGGAGCCGGACC
CTGGGCCCCGTGGAACCTCAGCCTGCGCCACCACGTCACGCACACGCTCGGCGCTGCGATCCGCGCATATAACGA
TATTTGGATTGACCTGCATTTTGGAAATTTATCTACACTTAAATGATGCCACCAGCAGTTGGAGGTCCAGTTGGATA
CACCCCCCAGATGGAGGCTGGGGCTGGGCAGTGGTAATTGGAGCTTTTCAATTCATCGGCTTCTCTTATGCATT
TCCCAAATCAATTACTGTCTTCTTCAAAGAGATTGAAGGTATATTCATGCCACCACCAGCGAAGTGTTCATGGAT
ATCCTCCATAATGTTGGCTGTCATGTATGGTGGAGGTCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCG
TATAGTCATGATTGTTGGTGGCTGCTTGTGAGGCTGTGGCTTGATTGCAGCTTCTTTCTGTAACACCGTACAGCA
ACTATACGTCTGTATTGGAGTCATTGGAGGTCTTGGGCTTGCCCTTCAACTTGAATCCAGCTCTGACCATGATTGG
CAAGTATTTCTACAAGAGGCGACCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTTCTCTGTACTCT
GGCCCCCTCAATCAGGTTTTCTTCGGTATCTTTGGATGGAGAGGAAGCTTTCTAATTCCTTGGGGGCTTGCTACT
AAACTGCTGTGTTGCTGGAGCCCTCATGCGACCAATCGGGCCCAAGCCAACCAAGGCAGGGAAAGATAAGTCTAA
AGCATCCCTTGAGAAAGCTGGAAAATCTGGTGTGAAAAAAGATCTGCATGATGCAAATACAGATCTTATTGGAAG
ACACCCTAAACAAGAGAAACGATCAGTCTTCCAAACAATTAATCAGTTCCTGGACTTAACCCTATTACCCACAG
AGGCTTTTTGCTATACCTCTCTGGAAATGTGATCATGTTTTTGGACTCTTTCACCTTTGGTGTCTCTTAGTAG
TTATGGGAAGAGTCAGCATTATTCTAGTGAGAAGTCTGCCTTCCTTCTTTCCATTCTGGCTTTTGTGACATGGT
AGCCCGACCATCTATGGGACTTGTAGCCAACACAAAGCCAATAAGACCTCGAATTCAGTATTTCTTTGCGGCTTC
CGTTGTTGCAAAATGGAGTGTGTCATATGCTAGCACCTTTATCCACTACCTATGTTGGATTCTGTGTCTATGCGGG
ATTCTTTGGATTGCTTCGGGTGGCTCAGCTCCGTATTGTTTGAAACATTGATGGACCTTGTGAGCCCCAGAG
GTTCTCCAGCGCTGTGGGATTGGTGACCATTGTGGAATGCTGTCTCTCTCGTCCCTGGGGCCACCACCTTTAGGTGCG
GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCGTCCTAATTATTTTCAAGGTATCTA
TCTCTTCATTGGCATGGGCATCAATTATCGACTTTTGGCAAAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAAAAG
TAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAATCTCCGGACCA
GAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGTCTTGAATCCATGGGGCTGAAGGGTAAATTGAGCA
GTTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCAGTGGTGTCTCAATGCAAATAGTAGAC
ATTTGTGTGGAATCATACCAGTTGTTTCAATTGATGGGATTTTGTGTTGACTCCTTACCAATAGCCTGAATTTGAG
GAGGGAATGATTGGTAGCAAAGGATGGGGGAAAGAAGTAGGTTCTGTTTTGTTTTGTTTTAATCTTAGCTTTTAA
TAGTGTCATAAAGATTATAATATGTGCCTTAAGTTTTAGTCTTTAGAACTCTAGAGAGCCTTAACCTCTTAAACC
ATTTTTGCTGAATTCATCTATTTTCGAGTGTGTTGTTAAAAGGAAAAATAACAATACTTGTGTTGAGGCAAACT
AAAATTTAAATTAATCTTGCTTCATTGTTACATGTAATATATTTTCAGACATTTTCACTGGAAGATTTATGAACA
GAAATATTGGTTGAAAGTTAGAGATTTTACAAAATGCTGACAAAAATATTTTCCCTAGCATCAGTAGATTTCTGGC
ATATGTTTCTGCTAGCTATATATTTAGGAAATTCAAAGCATAAACTTTGGCAACATCTTGGCTGTTCTAGACAC
AGTGTACTTGTCAACCCCTCTCAGGTACCTTTTCTTGGGATGCTTATTAGAAGCCAAGTAAAGTGCTTAAGGTTT
GTTTTTCAATTAATTAGCTATTTCTGCTCCCTGTTCAAAGATGCATTTTGAAGTGTATAGATCACTGCCCTTTT
TGAAATCACCTGGTATTATTTTCTTACTGGAAAAGTTAGTATTAATACTACAGAACTACATATTTGTGCCTCC
TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTTCAAACATCAGCTGAATTCACCTTAAGTTTTTCCA
AAACCTCAGTTAAACTGTGAAGCTATTGGAATTTTTTTTTTCTGGAATTTTTCCCTTTGATTACAGTGGTCCC
ATTTATATCTGCTTCTAGCTTAGTGCTATGTGTGAGATATGTGTGTGTTTGGTGTTTTTGTGTTTTTTTTT
TTTTTTAAGGTTTGCAAATTAAGGGCCAGAAAAATTTGGCACCAGGCAAACGAATAAAGATAGGATTGGGAA
AGAAGTTGCTAAGTGTGCTTAGTTTTAATAAGTAATTCCTTCTCTTTTTTTCAGAGAAGGCCTTACAGAAAAATTGT
TGTGCTTAGAATTGCTGGATGCATTTTTACCCTCCACACAAACCTAAAAATTTTGTGACCCCTTTCACTTACCTG
AAAAGTAGAGAAATGGATTCAAGTATAAGGATAAGGAGGGAAGGTGGACCAGAATGAAAAGTGAATATTTTTTT
AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATATTCAATGCATTTAAAAATACCA
CTGTAATTGACAGAGTAAAGTATAGATACAAAACCTTGIGTAAGAGGCTGACTTTTCCAAATAAACATTTTTTA
AGAAAACATTTCTTCTCCCAAATGTCTATTTTCTTGAGGAAAAATATTGCTGTGTCTTCATTTTCATTACCAGGTT
TCATTTTGGGCCCTTGCTAAATTGATTGAATTAATCTCCAGCTTTTGAACCTTGAAAAAAGGAAAAAAGG
AAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGG

1720/2825
FIGURE 1528

MPPAVGGPVGYTTPDGGGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGP
SSILVNKYGSRIVMIVGGCLSGCGLIAASFCNTVQQLYVCIGVIGGLGLAFNLNPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWGRGSFLIILGGLLLNCCVAGALMRPIGPKPTKAGKDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKRSVFQTINQFLDLTLFTHRGFLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSEKSAF
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFCVYAGFFGFAGWLSSVLF
ETLMDLVGPQRFSSAVGLVTIVECCPVLLGPPLLGRLNDMYGDYKYTYWACGVVLIISGIYLFIMGGINYRLAK
EQKANEQKESKEEETSIDVAGKPNEVTKAAESPDQKDTEGGPKEEESPV

1721/2825
FIGURE 1529A

CGCCAGATGGCTGAGAGCTATCAAGGAAAACTCAGGACCATGATGGCTCAGTTTCCCACAGCTATGAATGGAGGG
CCAAACATGTGGGCTATTACCTCTGAAGAACGTACTAAGCATGACAGGCAGTTTGATAACCTCAAACCTTCAGGA
GGTTACATAACAGGTGATCAAGCACGTAATTTTTTCTACAATCAGGTCTGCCGGCCCCCTGTTTTAGCTGAAATA
TGGGCTTTATCAGACCTAAACAAGGATGGGAAGATGGATCAGCAAGAGTTCTCCATAGCTATGAAACTCATCAA
CTGAAGCTTCAAGGCCAACAGTTGCCTGTGGTTCTCCCTCCTATTATGAAGCAACCCCCCTATGTTTTCTCCATTA
ATTTCTGCTCGTTTTTGGAAATGGGAAGCATGCCCAATCTGTCCATTCTCAGCCATTGCCTCCAGCTGCACCTATA
ACATCATTGTCTTCTGCGACTTCAGGGACCAACCTTCCTCCCTTAATGATGCCCACTCCCCTAGTGCCTTCTGTT
AGCACATCATCATTACCAAATGGAACCGCCAGTCTCATTACGCCCTTTACCCATTCCCTTATTCTTCTTCAACATTG
CCTCATGGGTTCATCTTATAGTCTGATGATGGGAGGATTTGGAGGTGCTAGTATACAGAAAGCGCAGTCTCTGATT
GATTTAGGATCTAGTAGCTCAACTTCCTCGACTGCTTCACTCTCAGGGAACCTCACCAAGACTGGGACCTCAGAG
TGGGCAGTTCCCTCAGCCTACAAGATTAAAAATATCGGCAAAAATTTAATACTCTTGACAAAAGTATGAGTGGATAT
CTCTCAGGTTTTCAAGCTAGAAATGCCCTTCTTCAGTCAAATCTTTCTCAAACCTCAGCTGGCTACTATTTGGACT
CTGGCTGACGTTGATGGTGATGGACAGCTAAAAGCAGAAGAGTTTATTCTTGCAATGCACCTTACTGACATGGCC
AAAGCTGGACAGCCATTACCACTGACTTTACCTCCTGAGCTTGTTCTCTCCATCTTTTCAGAGGAGGAAAAGCAAAT
GATTCCATTAATGGAACCTCTGCCTTCATATCAGAAAATGCAAGAAGAGGAGCCTCAGAAGAAATTACCAGTTACT
TTTGAGGACAAACGGAAAGCCAACTATGAGCGAGGGAACATGGAGCTGGAAAAGCGACGCCAAGCCTTGATGGAG
CAGCAACAAAGGGAGGCAGAACGTAAAGCCCAGAAAGAAAAGGAAGAGTGGGAACGAAAACAGAGAGAATTACAA
GAACAAGAATGGAAGAAACAACCTGAATTAGAAAAACGCTTAGAGAAGCAACGGGAATTGGAGAGACAACGAGAG
GAAGAAAGGAGAAAAGACATAGAAAGACGAGAGGCAGCAAAACAGGAACCTGAACGACAACGTCGCTTAGAATGG
GAGAGAATTCGGCGACAGGAGCTTCTCAATCAAAAAGAAATAGAGAACAAGAAGAAATTGTGAGGTTAAACTCTAAA
AAGAAGAATCTTCATCTTGAGTTGGAAGCACTGAATGGCAAACATCAGCAGATCTCAGGCAGACTTCAGGATGTC
CGACTCAAAAAGCAAACCTCAAAAGACTGAGCTGGAAGTTCTGGATAAGCAGTGTGACTTGGAATTTATGGAATC
AAGCAACTTCAACAGGAACCTTCAGGAATATCAGAATAAGCTTATCTATCTGGTACCTGAGAAGCAATTATTAAT
GAAAGAATTAAAAACATGCAGTTCAGTAACACACCTGATTACAGGGGTGAGTTTACTTCATAAAAAATCATTAGAA
AAGGAAGAATTATGCCAAAGACTTAAAGAACAGTTAGATGCTCTTGAAAAAGAAACTGCATCTAAGCTGTCAGAA
ATGGATTCTTTTAAACAATCAACTAAAGGAACCTGAGAGAAACCTACAACACACAGCAGTTAGCCCTTGAACAGCTT
TATAAGATCAAACGTGACAAGTTGAAGGAAATTGAAAGGAAAAGATTAGAATAATGCAGAAAAAGAACTAGAA
GATGAGGCTGCAAGGAAAGCAAAGCAAGGAAAAGAAAACCTTATGGAAAGAAAATCTTAGAAAGGAGGAAGAAGAA
AAACAAAAGCGACTCCAGGAAGAAAAAACACAAGAAAAAATTCAAGAAGAGGAACGGAAAGCTGAGGAGAAACAA
CGTAAGGATAAGGATACTTTGAAAGCTGAGGAGAAAAACGTGAGACAGCTAGTGTGTTTGGTGAATTATAGAGCA
TTATACCCCTTTGAAAGCAAGGAACCATGATGAGATGAGTTTTAATTCTGGAGATATAATTGAGGTTGATGAAAA
ACCGTAGGAGAACCTGGTTGGCTTTATGGTAGTTTTCAAGGAAATTTTGGCTGGTTTCCATGCAATTATGTAGAA
AAAAATGCCATCAAGTGAAAATGAAAAAGCTGTATCTCAAAGAAGGCCTTACTTCCTCCTACAGTTTCTTTATCT
GCTACCTCAACTTCCTCTGAACCACTTTCTTCAAATCAACCAGCATCAGTGACTGATTATCAAAATGTATCTTTT
TCAAACCTAACTGTAAATACATCATGGCAGAAAAAATCAGCCTTCACTCGAACTGTGTCCCCTGGATCTGTATCA
CCTATTCATGGACAGGGACAAGTGGTAGAAAACTTAAAGCACAGGCCCTTTGTTTCTGGACTGCAAGAAAGAT
AACCACTTGAACCTTCTCAAAACATGACATTATTACTGTCTTGGAGCAGCAAGAAAATTGGTGGTTTGGGGAGGTG
CATGGAGGAAGAGGATGGTTTCCCAAATCTTATGTCAAGATCATTCTGGGAGTGAAGTAAAACGGGAAGAACCA
GAAGCTTTGTATGCAGCTGTAAATAAGAAACCTACCTCGGCAGCCTATTGAGTTGGAGAAGAATATATTGCACTT
TATCCATATTCAAGTGTGGAACCTGGAGATTTGACTTTCACAGAAGGTGAAGAAATATTGGTGACCCAGAAAGAT
GGAGAGTGGTGGACAGGAAGTATTGGAGATAGAAAGTGGAAATTTTTCCATCAAACCTATGTCAAACCAAAGGATCAA
GAGAGTTTTGGGAGTGCTAGCAAGTCTGGAGCATCAAATAAAAAACCTGAGATTGCTCAGGTAACCTTCAGCATAT
GTTGCTTCTGGTTCTGAACAACCTTAGCCTTGCAACAGGACAGTTAATATTAATTCTAAAGAAAAATACAAGTGGG
TGGTGGCAAGGAGAGTTACAGGCCAGAGGAAAAAAGCGACAGAAAGGATGGTTTCTGCCAGTCATGTTAAACTT
TTGGGTCCAAGTAGTGAAAGAGCCACACCTGCCTTTTCACTCTGTATGTGAGGTGATTGCTATGTATGACTATGCA
GCAAATAATGAAGATGAGCTCAGTTTCTCCAAGGGACAACCTATTAATGTTATGAACAAAGATGATCCTGATTGG
TGGCAAGGAGAGATCAACGGGGTGACTGGTCTCTTTCTTCAAACCTACGTTAAGATGACGACAGACTCAGATCCA
AGTCAACAGTGGTGTGCTGATCTGCAAACCTGGACACAATGCAGCCAATTGAGAGGAAAAGACAGGGCTATATT

1722/2825
FIGURE 1529B

CATGAGCTGATTTCAGACCGAAGAGCGGTACATGGCTGACCTTCAGCTCGTCGTCGAGGTTTTTCAGAAAACGCATG
GCAGAGTCAGGCTTTCTCACTGAAGGGGAGATGGCCCTGATTTTTGTTAACTGGAAGGAGCTCATCATGTCCAAC
ACAAAGCTGCTGAAGGCTTTGCGGGTGCGGAAGAAGACCGGGGGCGAGAAGATGCCGGTGCGAGATGATTGGGGAC
ATCCTGGCCGCTGAGCTGTCCACATGCAGGCTTACATCAGGTTCTGCAGCTGCCAGCTTAATGGAGCAGCTCTG
TTACAGCAGAAGACAGATGAAGACACAGATTTCAAAGAATTTTTAAAGAAGCTGGCATCTGACCCGCGGTGTAAA
GGAATGCCCCCTCTCCAGCTTCCTGCTGAAACCCATGCAGAGGATCACCCGCTACCCACTGCTCATCAGAAGTATT
CTGGAGAACACCCCGGAGAGCCATGCAGACCATTCTCCCTAAAGCTGGCCCTCGAGCGGGCAGAGGAGCTGTGC
TCTCAAGTGAATGAGGGAGTTCGGGAGAAGGAAAACCTCGGACCGACTGGAGTGGATCCAGGCGCACGTGCAGTGT
GAAGGCCTCGCGGAGCAACTTATTTTCAACTCTCTACCAACTGCCTGGGGCCCCGGAAGCTCTTACACAGTGGG
AAATTATACAAGACCAAGAGCAACAAGGAAGTGCACGGATTCTCTTCAATGACTTCTGCTTCTTACCTACATG
GTCAAGCAGTTTGCTGTTTTCTCTGGCTCTGAGAACTTTTCAGCTCGAAGTCCAATGCTCAATTCAAAATGTAT
AAAACGCCCATTTTCTGAATGAAGTCTTGGTGAAACTGCCACAGACCCTTCCAGCGATGAGCCTGTCTTCCAC
ATTTCCACATTGATCGGGTCTACACCCTCCGAACAGACAACATTAATGAGAGGACCGCTGGGTGCAGAAGATC
AAGGCGGCGTCTGAGCAGTACATCGACACCGAGAAGAAGCAGCGTGAGAAAGCTTACCAAGCCCGCTCCCAAAAG
ACTTCAGGCATTGGGCGCCTGATGGTGCATGTCAATGAAGCTACAGAATTAAAAGCCTGCAAACCAAATGGAAAG
AGCAACCCATACTGTGAAATCAGCATGGGCTCCAGAGCTACACCACCAGGACCATCCAGGACACACTCAATCCC
AAGTGGAAATTTAACTGCCAGTTCTTTATTAAGGATCTCTACCAAGACGTGCTGTGTCTCACCTGTTTGACAGA
GACCAGTTTTACCAAGATGATTTCTGGGTGCTACTGAAATTCCAGTGGCAAAAATTGCAACAGAACAGGAAAGC
AAAGGCCCTATGACCCGCCGACTGCTGCTGCATGAGGTCCCCACCGGGGAGGTCTGGGTCCGTTTTTGACCTGCAG
CTTTTTGAGCAAAAAACTCTCCTGTAGGGGTTCTAAAAGGACAGCACCAGCGGGACAGCCCACAAGGCTGGGGCTG
GAGAATGAGAGACTGCGCTCTCTTGGGGCTGAGGGAGCACCATGCAGCTTACCCCTCACAAAGCCATGCACGCT
GGGGGCTCTGTTTTCTGCACACTAAATAGCTAGCAATCTATGCAAACACCTTTCCCATAAAGAAACCAAACCCC
ATAGTACAGTGCCCTGTCTAGTGTTTACATGTTTACGCTCTGTTTGTGTTAGATGCCAAGGTTTCCATTTTCAGGG
CTATAAAAAGTATTACTTGAAATGAGGCATCAGACCACCAGATGTTACCGCTCGGTTGAATGTGTCCACCGTGG
AGTGGTTTGGTGACGCTGTAACCATTCCACGCCAGTGACCTCTGCTGGGTACAGCCACTCAGGAGGGGAAGGGT
CAGGATGAGAGGCTGCAGCCTCGACACTTGGCGCGGCCTGATACTGAAATAGCGTCTACTCGTGCAGTGAATAAA
AACAGAACTTGATCATTATTTATTCCTGATTAGATTTTATCACTCTCTGCTAAGACAATATAGTCTGGAGTATAAG
TGGGAAAGCTTGATTTAAATACTGTGAACTCTAATAATGTGGAAAATATTTTTCACTTTAATTTTCTGAAGTAT
AAATTATTTATGTAAATTCATTGTTTTTGCATATTTCTTAGGACATGCATCTTTAAGCTTTATCATTGCCCATAT
GTACAGAAAGAGAATAAAGACATATGTTTATGGATGAAAAAAAAAAAAAAAAAAAA

1723/2825
FIGURE 1530

MAESYQGKLRMTMAQFPTAMNGGPNMWAITSEERTKHDRQFDNLKPSGGYITGDQARNFFLQSGLPAPVLAETWA
LSDLNKDGKMDQQEFSIAMKLIKLLKLGQQLPVVLPPIMKQPPMFSP LISARFGMGSMNPNSIPQPLPPAAPITS
LSSATSGTNLPPLMMPTPLVPSVSTSSLPNGTASLIQPLPIPYSSSTLPHGSSSYSLMMGGFGGASIQKAQSLIDL
GSSSSTSSTASLSGNSPKTGTSEWAVPQPTRLKYRQKFNTLDKSMGYLSGFQARNALLQSNLSQTQLATIWTLA
DVDGDGQLKAEFILAMHLTDMAKAGQPLPLTLPPPELVPPSFRGGKQIDSINGTLPSYQKMQEEEPQKKLPVTFE
DKRKANYERGNMELEKRRQALMEQQQREAEKAKQKEKEEWEWKQRELQEQEWKKQLELEKRLKQRELERQREEE
RRKDIERREAAKQELERQRRLEWERIRROELLNQNREQEIVRLNSKKKNLHLELEALNGKHQQISGRQLQDVRL
KKQTQKTELEVLDKQCDLEIMEIKQLQQELQEQYQNKLIYLVPEKQLLNERIKNMQFSNTPDSGVSLHKKSLKEKE
ELCQRLKEQLDALEKETASKLSEMDSFNNQLKELRETYNTQQLALEQLYKIKRDKLKEIERKRLQELMQKKLEDE
AARKAKQGKENLWKENLRKEEEEKQKRLQEEKTOEKIQEEERKAEKQKDKDTLKAEEKKRETASVLVNYRALY
PFEARNHDEMSFNSGDI IQVDEKTVGEPGWLYGSFQGNFGWFP CNYVEKMPSSSENEKAVSPKKALLPPTVSLSAT
STSSEPLSSNQPASVTDYQNVFSNLTVNTSWQKKSFAFTRTVSPGSVSP IHGQGQVVENLKAQALCSWTAKKDNH
LNFSKHDIIITVLEQQENWWFGEVHGGRGWFPKSYVKIIPGSEVKREEPEALYA AVNKKPTSAAYSVGEEYIALYP
YSSVEPGDLTFTEGEEILVTQKDGEWWTGSIGDRSGIFPSNYVKPKDQESFGSASKSGASNKKPEIAQVTSAYVA
SGSEQLSLAPGQLILILKKNTSGWWQGELOARGKKRQKGWFPASHVKLLGPSSERATPAFHPVCQVIAMYDYAAN
NEDELSFSKGQLINVMNKDDPDWWQGEINGVTGLFPPSNYVKMTTDS DPSQQWCADLQTLDTMQPIERKRQGYIHE
LIQTEERYMADLQLVVEVFQKRMAESGFLTEGEMALIFVNWKELIMSNTKLLKALVRKKTGGEKMPVQMIGDIL
AAELSHMQAYIRFCSCQLNGAALLQKTD ETD FKEFLKKLASDPRCKGMPLSSFLLKPMQRITRYPLLRISILE
NTPESHADHSSLKLALERAEEELCSQVNEGVR EKENS DRLEW IQAHVQCEGLAEQLIFNSLTNCLGPRKLLHSGKL
YKTKSNKELHGFLFNDFLLLTVMVKQFAVSSGSEKLFSSKSNAQFKMYKTPIFLNEVLVKLP TDPSSDEPVFHS
HIDRVYTLRTDNINERTAWVQKIKAASEQYIDTEKKQREKAYQARSQKTSIGIGRLMVHVIEATELKACKPNGKSN
PYCEISMGSQSYTTRTIQDTLNPKNFNCQFFIKDLYQDVLCLTLFDRDQFSPDDFLGRTEIPVAKIRTEQESKG
PMTRRLLLHEVPTGEVWVRFDLQLFEQKTLL

1724/2825
FIGURE 1531

CCTGTGAACACTATAGCGCTGAGAGAGACAGTCTGAAAGCAGAGGAAGACATCGATCAGTAACACCAAGAGACAC
CAAAGTTGAAAGTTTTGTTTTCTTTCCCTCTGTTTTATTTTTCCCCCGTGTGTCCCTACTATGGTCAGAAAAGCCT
GTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAAATGTTAACGGGAGGCTGCCTTCCCTGGGCAACAAG
GAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAAGTCACTTTACTGAGGGGAGTCTCCATTATCATTGGC
ACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGTCTCCAGAACACGGGCAGCGTGGGCATGTCTCTG
ACCATCTGGACGGTGTGTGGGGTCCCTGTCCTACTATTGGAGCTTTGTCTTATGCTGAATTGGGAACAACATAAAAG
AAATCTGGAGGTCATTACACATATATTTTGGAGTCTTTGGTCCATTACCAGCTTTTGTACGAGTCTGGGTGGAA
CTCCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTGGACGCTACATTCTGGAACCATTTTTT
ATTCAATGTGAAATCCCTGAACTTGCATCAAGCTCATTACAGCTGTGGGCATAACTGTAGTGATGGTCTTAAAT
AGCATGAGTGTGAGCTGGAGCGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACAGCAATTCTGATAATT
ATAGTCCCTGGAGTTATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCCTTTTCAGGAAGAGATTCA
AGTATTACGCGGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTTTACCTCAACTTTGTT
ACTGAAGAAGTAGAAAACCCCTGAAAAAACCATTCCCTTGCAATATGTATATCCATGGCCATTGTCACCATTGGC
TATGTGCTGACAAATGTGGCCTACTTTACGACCATTAATGCTGAGGAGCTGCTGCTTTCAAATGCAGTGGCAGTG
ACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTCTCCTGCTTTGGCTCC
ATGAACGGTGGTGTGTTTGCTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCACCTTCCAGAAATCCTC
TCCATGATTGATGTCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACCCTTTGACAATGATAATGCTC
TTCTCTGGAGACCTCGACAGTCTTTTGAATTTCTCAGTTTGGCCAGGTGGCTTTTTATTGGGCTGGCAGTTGCT
GGGCTGATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTGTTTATCCCAGCTTTG
TTTTCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCTATTTCGGACCCATTTAGTACAGGGATTGGCTTCGTC
ATCACTCTGACTGGAGTCCCTGCGTATTATCTCTTTATTATATGGGACAAGAAACCCAGGTGGTTTTAGAATAATG
TCAGGGTTCCTAGCACTGATGCCTGCACAAGCATGTGATATGTGAAATAAAATGGATTCTTCTATAGCTAAATGA
GTTCCCTCTGGGGAGAGTTCTGGTACTGCAATCACAATGCCAGATGGTGTGTTATGGGCTATTTGTGTAAGTAAGT
GGTAAGATGCTATGAAGTAAGTGTGTTTGTGTTTCATCTTATGGAACTCTTGATGCATGTGCTTTTGTATGGAAT
AAATTTTGGTGCAATATGATGTCATTCAACTTTGCATTGAATTGAATTTTGGTTGTATTTATATGTATTATACCT
GTCACGCTTCTAGTTGCTTCAACCATTTTATAACCATTTTGTACATATTTTACTTGAAAATATTTTAAATGGAA
ATTTAAATAAACATTTGATAGTTTACATAATAAAAAAAAAAAAAAAAAAAAAA